CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, May 6, 1909.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(denotes that this work is advertised in Engineering News.)*

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	See issue.
5- 7*Dredging, Wilmington, Del.	(P. & S.)	4-15
5- 8 Seawall, dredging, Norfolk, Va.	(S.)	4- 8
5-10 Dredging, Philadelphia, Pa.	(S.)	4-22
5-12 Sewers, Mobile, Ala.	(S.)	4-22
5-15 Dredging, Vallejo, Cal.	(S.)	4-22
5-15 Hospital bldgs., Wash., D. C.	(S.)	4-15
5-22 Dry dock, Hawaii	(S.)	3-25
5-24*Undergrade crossings, Louisville & Nashville R. R.	(P. & S.)	4-29
5-24*Dredging, Baltimore, Md.	(S.)	4-29
5-24*Bridge, Newburyport, Mass.	(S.)	5- 6
5-26*Lock, Vicksburg, Miss.	(S.)	4- 1
5-27*Barracks, Ft. Totten, N. Y.	(P.)	4-29
5-18*Dredging, Milwaukee, Wis.	(S.)	4-29
5-18*Filtration plant, Toronto, Ont.	(P. & S.)	4-22
6- 1*Pipe and specials, Philippines.	(P. & S.)	3-25
6- 5 Coal-conveyor system, Key West, Fla.	(S.)	5- 6

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

5- 8 Wiring, Ft. Bayard, N. Mex.	4-15
5-14 Elec. equip., Rushville, Ind.	4-22
5-26 Power plant, New York	5- 6
5-26*Heating, Madison Barracks, N.Y.	5- 6
6- 1 Lighting, Bridgeport, Ohio	4-22
7- 1*Lighting, Boston, Mass.	5- 6

BRIDGES.

5- 6 Bridge, Gaffney, S. C.	5- 6
5- 7 Bridge, Marietta, Wash.	5- 6
5- 7 Bridge, Northbend, Ohio	4-22
5- 7 Bridge, Steubenville, Ohio	4-29
5- 7 Bridges, Wilkes-Barre, Pa.	4-29
5- 8 Substructure, etc., Hamilton, O.	4-22
5- 8 Bridge, Lewistown, Pa.	5- 6
5-10 Bridge, etc., Hartford, Conn.	5- 6
5-10 Bridges, Richmond, Ind.	4-29
5-10 Bridges, Doylestown, Pa.	4-29
5-11 Bridges, New Castle, Pa.	5- 6
5-12 Bridge work, Cleveland, Ohio	4-29
5-12 Bridges, New Castle, Pa.	4-29
5-13 Bridge, Dayton, Ohio	4-29
5-13 Bridge, Laconia, N. H.	5- 6
5-17 Bridge, Mansfield, Ohio	5- 6
5-17 Bridge, Morristown, N. J.	5- 6
5-20 Bridges, Mitchell, S. Dak.	5- 6
5-20 Bridge, Massillon, Ohio	5- 6
5-21*Superstructures, Gaspe, Que	4-22
5-24*Bridge, Newburyport, Mass.	5- 6
7- 1 Bridge, Toledo, Ohio	4-29

BUILDINGS.

5-10 School, Loraine, Ohio	4-29
5-10 Post-office, Yazoo City, Miss.	4- 8
5-10 Public school work, New York	4-29
5-11*Sheds, New Orleans, La.	4-15
5-11 School, St. Bernard, Ohio	4-29
5-11 Building, New York	5- 6
5-12 Building, New York	5- 6
5-12*Buildings, Middletown, N. Y.	4-29
5-12*Buildings, Rochester, N. Y.	4-29
5-12*Heating, etc., Danville, Ill.	4-15
5-12 Plumbing, etc., Danville, Ill.	4-15
5-12*Post-office, Danville, Ill.	4- 8
5-13 Laundry plant repaired, New York (Mfg. Pl.)	4-29
5-14 Refrig. mach., Wash., D. C. (Mfg. Pl.)	4-29
5-14 Buildings, St. Paul, Minn.	5- 6
5-15 Building, Northfield, Vt.	4-29
5-15*Bldg. materials, West Point, N.Y.	4-15
5-15 Naval hospital, Wash., D. C.	4-15
5-17 School, Cincinnati, Ohio	4-29
5-20 Post-office, Shenandoah, Ia.	4-22
5-20 Cottages, Indianapolis, Ind.	5- 6
5-22 Building, East Lansing, Mich.	4-29
5-24*Post-office, Eureka, Cal.	4-22
5-24 Building, Boston, Mass.	5- 6
5-26*Barracks, Columbus Barracks, O.	5- 6
5-27*Doors, Fort Monroe, Va.	4-29
5-27*Barracks, Fort Totten, N. Y.	4-29
5-28 School, Cleveland Heights, O.	5- 6
5-29*Post-office, San Angelo, Tex.	4-29
5-30 Dormitory, Indianapolis, Ind.	5- 6
5-31 Post-office, Texarkana, Tex.	4-29
6- 3*Quarters, Ft. Andrews, Mass.	5- 6
6- 7*Post-office, etc., Fernandina, Fla.	5- 6

WATER-WORKS.

5- 7 Water ext., Fort McKinley, Me.	4-29
5- 7*Pumps, etc., Lethbridge, Alta.	4-29
5- 7 Pipe, Boston, Mass.	5- 6
5-10 Water mains, Grand Forks, N. D.	5- 6
5-10 Water main, Tama, Iowa	5- 6
5-10 Pipe, Augusta, Ga.	5- 6
5-10*Water-works, Plankinton, S. Dak.	4-22
5-12 Water main, Galveston, Tex.	4-29
5-12*Reservoir, Ridgway, Pa.	5- 6
5-15 Water-works, Muncie, Ind.	5- 6
5-17*Pumps, etc., New York	4-29
5-18 Filtration plant, Toronto, Ont.	4-29
5-19 Water-works, Estevan, Sask.	4-29
5-20*Filtration plant, Bowling Green, Ky.	5- 6
5-20*Reservoir dam, Glens Falls, N.Y.	5- 6
5-20*Intake, etc., Concord, Mass.	5- 6
5-22*Filter mach., Toledo, Ohio	4-29
5-24*Intake pipe, etc., Chester, Pa.	5- 6
5-24*Water extens'ns, McAlester, Okla.	5- 6
6- 1 Water-works, sale, Lawrenceville, Va.	4-29
6- 1*Pipe and specials, Philippines (U. S. Poss.)	3-25
6- 2*Pipe, Springfield, Mass.	5- 6
6- 9 Hydrants, San Francisco, Cal.	4-29
7- 1*Valves, hydrants, Manila	5- 6

SEWERS.

5- 7*Sewer, Louisville, Ky.	4-29
5- 7 Sewer, Beloit, Wis.	5- 6
5-10 Sewer, etc., Bathgate, N. Dak.	5- 6
5-10 Sewers, Lima, Ohio	5- 6
5-10 Sewer, Guttenberg, N. J.	5- 6
5-10*Sewer system, Plankinton, S. Dak.	4-22
5-10 Sewers, Lindsborg, Kan.	4-22
5-11 Sewers, Watertown, Wis.	5- 6
5-11 Sewers, Ashtabula, Ohio	5- 6
5-11 Sewers, New York	5- 6
5-12 Sewers, Mobile, Ala.	4-22
5-12*Drains, Baltimore, Md.	4-29
5-13*Sewer, Danville, Pa.	4-29
5-14 Sewers, Huron, S. Dak.	4-22
5-14*Sewer, Louisville, Ky.	5- 6
5-17 Sewer system, Basin, Wyo.	4-29
5-18*Sewer, Syracuse, N. Y.	4-15
5-19 Sewers, etc., Brooklyn, N. Y.	5- 6
5-21*Sewers, Louisville, Ky.	4-29
6- 9*Sewer, Toronto, Ont.	5- 6

STREETS AND ROADS.

5- 6 Repairing, Buffalo, N. Y.	5- 6
5- 7 Paving, Milwaukee, Wis.	5- 6
5- 7 Road impv't, Cincinnati, Ohio	4-22
5- 7 Road impvt., Mount Gilead, Ohio.	4-15
5- 7 Road, Fowler, Ind.	4-15
5- 8 Roads, Spencer, Ind.	4-22
5- 8*Road, Bernardsville, N. J.	4-29
5-10 Pavement, Cresco, Iowa	4-29
5-10 Grading, etc., McKees Rocks, Pa.	4-29
5-10 Resurfacing roads, etc., Fort Mansfield, R. I.	4-29
5-10 Macadam, etc., Concord, N. H.	4-22
5-10 Paving, Aberdeen, S. Dak.	4-22
5-10 Road, Huntington, Ind.	4-22
5-10 Paving, Des Moines, Iowa	5- 6
5-10 Grading, etc., Bedford, Iowa	5- 6
5-10 Paving, Lakewood, Ohio	5- 6
5-10 Grading, etc., Steubenville, O.	5- 6
5-10 Paving, North Tonawanda, N.Y.	5- 6
5-11 Curb and gutters, Cambridge, Wis.	5- 6
5-11 Grading, etc., Bucyrus, Ohio	5- 6
5-11 Regulating, etc., New York	5- 6
5-11 Paving, Fredonia, N. Y.	5- 6
5-11*Pavement, Augusta, Ga.	4-22
5-12 Paving, Mobile, Ala.	4-22
5-12 Road, Tipton, Ind.	4-22
5-12 Paving, Mobile, Ala.	4-22
5-12*Curbs, etc., Rye, N. Y.	4-29
5-12 Macadam, Columbus, Ohio	4-29
5-12*Pavement, Glens Falls, N. Y.	5- 6
5-12 Road repair, Toledo, Ohio	5- 6
5-13 Trap rock, etc., New York	4-29
5-14 Grading, etc., Paulding, Ohio	4-29
5-15 Grading, etc., Ashton, S. Dak.	4-29
5-15 Sidewalk, etc., St. Charles, Mo.	5- 6
5-15 Road, Marion, Ind.	5- 6
5-15 Grading, etc., Breckenridge, Minn.	5- 6
5-15*Pavement, etc., Wash., D. C.	5- 6
5-17 Grading, etc., Bowling Green, O.	4-29
5-17*Grading, etc., Fort Monroe, Va.	4-22
5-17 Road, Greencastle, Ind.	4-22
5-17 Regulating, etc., New York	5- 6
5-17 Road repair, Toledo, Ohio	5- 6
5-17 Paving, Bramwell, W. Va.	5- 6
5-17 Street impvt., Roanoke, Va.	5- 6
5-18 Pavement, Menasha, Wis.	5- 6
5-20*Pavements, etc., Winnipeg, Man.	4-29
5-20 Street impvt., Rainier, Ore.	5- 6
5-20 Macadam, etc., Lakemills, Wis.	5- 6
5-20 Stone, Wilmington, N. C.	5- 6
5-21 Grading, Mount Gilead, Ohio	4-29
5-22 Grading, etc., Westerville, Ohio.	5- 6
5-25 Road, Rushville, Ind.	5- 6
5-25*Pavement, McAlester, Okla.	5- 6
5-25*Paving, etc., Clairsville, Ohio	5- 6
6- 1*Grading, etc., Pensacola, Fla.	5- 6

MISCELLANEOUS.

5- 7*Dredging, Wilmington, Del.	4-15
5- 7*Lumber, Wash., D. C.	4-22
5- 8*Excavation, Portland, Me.	4-15
5- 8*Dipper dredge, Nashville, Tenn.	4- 8
5- 8 Seawall, dredging, Norfolk, Va.	4- 8
5- 8*Telephone sys., Lumsden, Sask.	4-29
5-10 Dam, Denison, Tex	4-29
5-10 Dredging, Philadelphia, Pa.	4-22
5-10*Iron fence, Boston, Mass.	4-22
5-11*Ry. work, Phila. & Reading (Rys.)	4-15
5-11 Ditches, Ft. Wayne, Ind.	5- 6
5-12 Repairing steamboat, New York	5- 6
5-12 Movable towers, Panama	5- 6
5-12*Canal, Augusta, Ga.	4-22
5-12 Canal work, Columbus, Ohio	4-29
5-13*Shelving, Knoxville, Tenn.	5- 6
5-13 Cribwork, etc., New York	5- 6
5-14*Cement, Hawaii (U. S. Poss.)	4- 1
5-14*Cement, Wheeling, W. Va.	4-15
5-15 Dredging, Vallejo, Cal.	4-22
5-15 Ditch, etc., Shelbyville, Ind.	5- 6
5-17 Supplies, Panama	5- 6
5-17*Embankment, Greenville, Miss.	5- 6
5-17 Riprap jetties, Washington, D. C.	5- 6
5-17*Purchase of gas tar, Richmond, Va.	4-22
5-17*Raising jetties, Jacksonville, Fla.	4-22
5-18*Dredging, Milwaukee, Wis.	4-29
5-20*Railway, Shannon Arizona R. R.	4-29
5-20*Wire fence, Missoula, Mont.	4-22
5-22 Dry dock, Hawaii (U. S. Poss.)	3-25
5-24*Dredging, Baltimore, Md.	4-29
5-24*Undergrade crossings, Louisville & Nashville R. R.	4-29
5-24*Supplies, Panama	5- 6
5-24*Dredging, Kenton, Ohio	5- 6
5-26*Lock, Vicksburg, Miss.	4- 1
5-26*Signals, towers, etc., Phila., Pa.	4-22
5-27*Dams, etc., Rock Island, Ill.	4-29
5-27*Rubble stone, etc., New York	5- 6
5-28*Light-house, Cleveland, Ohio	5- 6
5-28 Lighthouse, Cleveland, Ohio	4-22
6- 1*Towboat, New Orleans, La.	5- 6
6- 1*Dredging, Baltimore, Md.	4-29
6- 5 Coal-conveyor system, Key West, Fla.	5- 6
6- 7*Dredging, Baltimore, Md.	5- 6
6-14*Canal, Porto Rico (U. S. Poss.)	5- 6
6-28*Causeway, Galveston, Tex.	5- 6

EXAMINATIONS.

5-10 Inspector, New York	4-29
5-19 Arch. Draftsman, Wash., D. C.	4-22
5-24 Draftsman, New York, N. Y.	4-22
5-24 Draftsman, Boston, Mass.	4-22
5-24 Draftsmen, Chicago, Ill.	4-22
5-24 Draftsmen, Mare Island, Cal.	4-22
5-24 Draftsmen, Puget Sound, Wash.	4-22

RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

ARNPRIOR & PONTIAC.—H. Kedey, of Fitzroy Harbor, Ont.; A. H. N. Bruce, 75 Somerset St., R. Bruce and J. G. Gibson, all of Ottawa, Ont., and J. Bell, of Arnprior, Ont., have incorporated this railway. It is planned to build from a point on the Canadian Pacific Ry. between Quyon, Que., and Campbell's Bay, south across the Ottawa River to Fitzroy Harbor; thence westerly, via Arnprior, to a point on the Kingston & Pembroke Ry., near High Falls, about 40 miles. Also a line from Fitzroy Harbor to South March, via Britannia, 25 miles. A bridge will be built over the Ottawa River.

CANADIAN NORTHERN.—The Ontario Government has granted this company a subsidy of 4,000 acres of land per mile for a line between Selwood and Port Arthur, Ont.

It is semi-officially stated that the company will spend $1,000,000 per month during the remainder of the year on construction. The work includes relaying 200 miles of the main line between Winnipeg, Man., and Port Arthur, Ont., with heavier steel. The company will spend $3,000,000 on new rolling stock this year.

JAMES & McDONNELL, Lethbridge, Alta., have been awarded the contract for the 10-mile cut off at Stanley Junction, Ont.

CANADIAN PACIFIC.—The Railroad Commission at Ottawa has decided that this company must build a 10-mile extension to the Manitoba & Northwestern branch this year or lose its charter for the branch.

The contract for the cut-off near Jackfish, New Ontario, has been let to W. T. PARSONS, Winnipeg, Man.

CHICAGO, MILWAUKEE & GARY.—It is announced that this project has been financed by the St. Louis Union Trust Co. The Chicago, Milwaukee & Gary R. R. was formerly known as the Illinois, Iowa & Minnesota, and when completed will form an outer belt railway to Chicago extending from Milwaukee on the north to Gary, Ind., on the south, crossing trunk lines centering in Chicago. The route of the belt will be from Milwaukee through the cities of Janesville, Beloit, Rockford, Dekalb, Aurora, Joliet, Momence and Crown Point to Gary. The road is now in operation from Rockford to Momence, Ill., 125 miles, using the tracks of the Elgin, Joliet & Eastern from Aurora to Joliet. The links to be built are: From Momence to Gary, 26 miles, to cost about $2,225,000; from Milwaukee to Rockford, 100 miles, to cost $6,500,000, and from Aurora to Joliet, 22 miles, to cost $1,180,000. It is said there has been expended up to date in construction and right-of-way about $6,000,000. The company has an authorized bond issue of $20,000,000, of which only $5,500,000 is outstanding. The $10,000,000 new bonds issue will be general mortgage bonds bearing 5 per cent. interest. The $10,000,000 common stock outstanding is to be placed with the trust company as security and eventually the common stock issue will be increased to $20,000,000. When completed the belt line will have 251 miles. Albert T. Perkins is Pres., St. Louis, Mo. I. W. Troxel is Ch. Engr., The Rookery, Chicago.

COAL & COKE.—Contract has been awarded to JOSEPH FUCCY, Weston, W. Va., for building a branch from Gassaway through Sutton to Wolf's Creek, W. Va., about 8¼ miles. A. M. Smith is Gen. Mgr. and R. H. Pembroke is Ch. Engr., at Elkins, W. Va.

COOS BAY, OREGON & IDAHO.—Incorporated in Oregon, with $25,000 capital, to build an electric or steam line from Coos Bay, Ore., east via Roseburg to Boise, Idaho. The incorporators include W. Grimes, J. C. Gray, H. Sengstacken, J. V. Pugh, J. R. Smith and P. Hennessey, with headquarters at Marshfield, Idaho.

GRAND TRUNK PACIFIC.—The company announces that the following branch lines will be constructed in addition to those already announced. From a point on the main line west of Pembina Crossing, southwesterly to Embarras River and southerly to the head waters of the Little Pembina River, 100 miles; from the Embarras River southwesterly to the McLeod River, 25 miles; from a point between Calgary and Coutts, Alta., southwesterly to McLeod and thence, via Pincher, to the western boundary of Alberta, 100 miles; from Regina to Moosejaw, Sask., 45 miles.

The Saskatchewan Government has agreed to guarantee bonds to the extent of $13,000 per mile for a line between Prince Albert and Melville, the divisional point on the main line.

MINIDAKA & SOUTHWESTERN (Oregon Short Line).—Contract has been awarded to the UTAH CONSTRUCTION CO., Ogden, Utah, for building a 29-mile extension on the M. & S. W. R. R. between Twin Falls and Hollister, Idaho.

PITTSBURG, SHAWMUT & NORTHERN.—Company, it is stated, will open bids May 10 for the construction of the 11-mile branch from Caryville, Pa., to State Line Junction, in Cattaraugus County, N. Y. Frank Sullivan Smith, 60 Wall St., New York, is Receiver. H. S. Wilgus, Angelica, N. Y., is Engr. Maintenance-of-Way. The New York Public Service Commission, Second District, has authorized the Receiver to issue $1,600,000 Receiver's certificates, the proceeds of the sale of these certificates to be used to refund Receiver's certificates maturing in September, 1910, and March, 1911, but payable at the option of the Receiver in 1909, and also for additions and improvements.

TENNESSEE.—The Mountain Ry. Co., of Chattanooga, Tenn., will let contracts soon for the construction of a 1,900-ft. incline railway up the side of Lookout Mountain, near Chattanooga, Tenn. Surveys have been made. $125,000 have been secured with which to construct the line. W. L. Doods, Chattanooga, Tenn., is Engr.

TEXAS.—The Chamber of Commerce of Wichita Falls (Tex.) has been authorized by citizens to offer a bonus of $75,000 to the Oklahoma City Chamber of Commerce to secure the building of a railroad from Oklahoma City to Wichita Falls.

*TEXAS.—Bids are asked until noon, June 28, by John M. Murch, County Audr., Galveston, Tex., for building a causeway across Galveston Bay, between Galveston Island and Virginian Point. Proposals will be received for the causeway in its entirety and for any of the three sections, the arch bridge, the lift bridge and the roadway, comprising the same. The entire causeway will be 10,642 ft. long. The arch bridge will be 2,472 ft. long; the lift bridge will have a clear span of 100 ft., and the roadway will be about 8,170 ft. long. Contractors bidding on entire causeway must divide their bids into three parts, for the arch bridge, the lift bridge and the roadway. Plans and specifications may be seen, and forms of proposal and contract may be obtained at the offices of the County Engineer or County Auditor of Galveston County. Plans and specifications may also be seen at the offices of the Chief Engineer of the Gulf, Colorado & Santa Fe Ry., Galveston, Tex.; Bridge Engineer of the Galveston, Harrisburg & San Antonio Ry., Houston, Tex.; Bridge Engineer of the Atchison, Topeka & Santa Fe Ry. Chicago, Ill.; Stone & Webster, Boston, Mass., and the Concrete-Steel Engineering Co., 13 Park Row, New York, N. Y. Copies of the specifications may be obtained from the Concrete-Steel Engineering Co. upon making a deposit of $20.

WEST POINT & HOUSTON.—This company has been organized and application has been made for a charter to build a steam line connecting the places named in the title in Mississippi, a distance of about 30 miles. J. M. Hardison is Pres.; W. F. Lagrone, Secy.; L. T. Carlisle, Treas., West Point, Miss. Estimated cost, $200,000, including equipment.

ELECTRIC RAILWAYS.

NEW YORK, N. Y.—The Triborough Railroad Co., of New York City, has been incorporated to operate a double-track street surface electric railroad, 2½ miles long, from the intersection of Canal, Walker and Baxter Sts., in Manhattan Borough, to the intersection of Fulton St., with the Flatbush Ave. extension, Brooklyn. The company has a capital of $50,000. The Directors include William Bradley, James E. Gaffney and Henry Steers, of New York, and William E. Bolte, of Maywood, N. J. Company will apply to the Public Service Commission and to the Board of Estimate and Apportionment for a franchise to build and operate a surface electric railroad over the new Manhattan Bridge. It is the company's intention to charge a three-cent fare from Canal and Walker Sts., the Manhattan terminus of the proposed line, to Fulton St. and the Flatbush extension, where the Brooklyn terminus will be. Another factor involved in the Triborough Co.'s plan is the exchange of free transfers between the proposed surface railroads and the Broadway-Lexington Ave. subway, provided that this $00,000,000 route is constructed and operated by the Bradley-Gaffney-Steers Co., of 1 Madison Ave., New York, which filed a proposal with the Public Service Commission several weeks ago.

Arthur J. Baldwin, counsel for the Triborough Co., who is also attorney for the Bradley-Gaffney-Steers Co., according to the New York "Tribune," has stated that "the purpose in incorporating the Triborough Railroad Co. is primarily to establish a surface railroad which will not only furnish transportation over the new Manhattan Bridge, but will also operate in both bor-

oughs. At present there is no surface or elevated railroad company operating cars both in Brooklyn and Manhattan. Ultimately we expect to build extensions from the Fulton St. terminal in Brooklyn, which will run to various sections of the borough, the idea being to provide for Brooklynites a transportation system entirely independent of the Brooklyn Rapid Transit Co. Likewise, if the Bradley-Gaffney-Steers Co. succeeds in obtaining a franchise for the Broadway-Lexington Ave. route in Manhattan, transfers will be exchanged between the subway and surface railroad systems. Under the conditions I assume that the application of the Triborough Railroad Co. for a franchise will be stubbornly opposed before the Board of Estimate and Apportionment. I believe, however, that when our purpose is fully understood force of public sentiment will compel the granting of the franchise, just as it did in the case of the McAdoo extension."

LAKEWOOD, N. J.—The Lakewood & Seashore Ry. Co. has been incorporated in New Jersey to build and operate a trolley road from Lakewood to Point Pleasant, a distance of about nine miles. The applicants include Freeholder Charles R. Le Compte, James H. Butcher, of Lakewood; R. A. Clark, Joseph W. Johnson, A. O. S. Havens, William K. Blodgett, of Point Pleasant, and others. They plan to take over the right-of-way of the Trenton, Lakewood & Atlantic Ry. Co., which is now in the hands of a receiver.

FINLEYVILLE, PA.—The Finleyville Southern St. Ry. Co. will apply for a charter to build a 14-mile electric railway from Finleyville to Bentleyville. The route is practically that of the od Pittsburg Southern R. R., which was graded in 1877 and never used. Promoters: A. H. Anderson, S. C. Wilson, F. M. Hayden, T. M. Hayden, J. E. Hayden and H. B. Hayden.

YORK, PA.—Extensions costing $100,000 in this city will be made by the York Railways Co., it is stated. Gordon Campbell is Gen. Mgr. Several lines will be double-tracked and routes laid out to eliminate the congestion of cars in Center Square.

GRAFTON, W. VA.—The Grafton St. Ry. Co. has decided to extend its line west to Flemington, ten miles. John T. McGraw is Pres., Grafton.

GEORGETOWN, S. C.—The Georgetown Railway & Light Co. expects to begin construction of its street railway this summer. H. C. Case is Pres., 2215 Land Title Bldg., Philadelphia, Pa.

LAURENS, S. C.—Joseph E. Sirrine, of Greenville, S. C., has been given the contract to survey for the proposed electric railway from Laurens to Clinton, S. C.

ATLANTA, GA.—The Atlanta Northeastern R. R. Co. has completed surveys. As noted on Oct. 29, 1908, this company was authorized by the Georgia Railroad Commission "to issue $1,200,000 of stocks and bonds for the purpose of constructing a line from Atlanta to Cumming, 42 miles. They will be first mortgage, 30-year 5% bonds. The plans for the new electric road for which a charter has been granted, contemplate a line from Atlanta to Cumming, through Roswell and Alpharetta, 47 miles. A roadbed of the most substantial character and equipment of the latest and most approved type are to be provided, according to the plans of the promoters. When the Atlanta-Cumming line is in operation, it is contemplated that extensions will be made to Dahlonega in Lumpkin County, another to Ellijay in Gilmer County, and another towards the east. Eventually a network of electric roads will cover these counties of north Georgia which now have not a mile of steam road within their borders." The following persons are interested in the new road: Hon. F. C. Tate, Jasper; C. C. Foster and J. O. Crowley, Roswell; W. A. Lummus, J. I. Teasdale and J. P. Brooke, Alpharetta; W. R. Atwell and C. I. Harris, of Cumming. J. L. Murphy, 1102 Candler Bldg., Atlanta, is Secy.; M. Mason, Terminal Bldg., is Ch. Engr.

NASHVILLE, TENN.—The Nashville & Crocker Springs Rapid Transit Ry. Co. has been incorporated to construct an electric railway from Nashville to Crocker Springs, a distance of twelve miles. It will connect with the Nashville Railway & Light Co.'s line at First St. Engineers will be put in the field at once to make the surveys. Contracts may be awarded within the next 30 days. Capital, $50,000. Incorporators: Lee Guggenheim, Pres. and Gen. Mgr.; W. F. Webb, Vice-Pres.; R. B. Jones, Secy.; J. A. Witherspoon, James D. Marr, F. Roddy, W. W. Moorehead and Frank B. Marr. Headquarters, 302 First National Bank Bldg., Nashville. Contracts will be let soon.

KNOXVILLE, TENN.—The County Court has granted Charles Dawes a franchise to build an electric railway from Knoxville to Bearden. Branches are to be built to Concord and Lyons View.

CLEVELAND, OHIO.—Bids are asked by Peter Witt, City Clerk, until noon, May 20, to construct and operate a street railroad over the route established in Section 1 of Ordinance No. 14,351, passed by the Council of the City of Cleveland on April 12, 1909. Copies of this ordinance can be secured on application to the City Clerk, Cleveland.

TIFFIN, OHIO.—The Ohio Northern Electric Railway Co. has been incorporated at Columbus by George W. Stewart, James S. Gray, B. F. Whitney, K. Feickert and E. A. Whiting. The incorporators announce their purpose to build an electric interurban railway from Bucyrus to Tiffin, thence to Toledo. The initial capital is $50,000. The company will establish headquarters at Tiffin.

HARLAN, IND.—A company to be known as the Fort Wayne & Toledo Ry. Co. has been organized at Harlan, Ind. R. P. Bastress, of Harlan, has been elected Gen. Mgr. The line will be 50 miles long, and will connect Fort Wayne, Maysville, Ind., and Hicksville, Ohio. It is said to be the intention of the company to start work May 1. The authorized capital stock of the company is $100,000.

WARSAW, IND.—The City Council has granted a franchise to the Wabash & Northern Interurban Co., with which J. A. Barry and William H. Moyer are identified. Mayor C. A. Rigdon has signed the franchise and J. A. Barry accepted it. The franchise calls for the completion of the work in Warsaw and to a point five miles south of the city by Jan. 1, 1910. Survey is under way between Warsaw and Wabash, Ind. Wm. Fowler is Engr. Right-of-way has been secured. Capital, $1,000,000.

SPARTA, WIS.—Surveys have been made by the Sparta & Melrose Electric Ry. & Power Co. for the construction of its projected 28-mile line from Sparta, Wis., through Angio, Trout Falls and Cataract, to Melrose. Contracts will be let about May 15. C. Oehles, 402 American National Bank Bldg., St. Paul, Minn., is Ch. Engr. J. N. Braun, 402 American National Bank Bldg., St. Paul, Minn., is Pres.

BOZEMAN, MONT.—We are officially advised that the WESTINGHOUSE ELEC. & MFG. CO., Pittsburg, has closed contract covering the line material for the Gallatin Valley Electric Ry. Co., of Bozeman, Mont., for 18 miles of new line. Noted on April 8.

PORTLAND, ORE.—The Portland, Butte & Baker City Elec. R. R. Co. has been incorporated. H. C. McAllister, Master Fish Warden, is Pres.; John M. Gilkyson, Vice-Pres.; J. C. Robinson, Secy.; Mark M. Gill, Assistant Secy, and John Tait, Treas. The project calls for the construction of 300 miles of railway across interior Oregon and Idaho to central Montana. The first section of the road is planned into the John Day Valley in Central Oregon from Portland. Construction of the first 30 miles out of Portland, it is said by officers of the road, is to begin at once. Work on grade for the road is promised in June. L. M. Rice & Co., of Seattle, are the Engrs.

SALT LAKE CITY, UTAH.—The WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa., announces that it has received a contract from the Falkenau Electrical Construction Co., of Chicago, engineers for the Salt Lake & Ogden Railway Co., covering direct suspension line material for the 37 miles of electrification of the present steam road between Salt Lake City and Ogden. Noted on Feb. 18.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

MANCHESTER, N. H.—The State Legislature has given authority to build a dam below Goff's falls to the Amoskeag Mfg. Co. of this city. The charter specifies that the dam shall be restricted to such a height as not to interfere with the flow of water under the railroad bridge at Goff's Falls, and shall be 62 ft. below the crest of the stone dam at Amoskeag Falls. It grants authority to lay cables in the river and to string wires for the transmission of electric current to the company's mills in this city.

*BOSTON, MASS.—Bids are asked until July 1, by Guy C. Emerson, Supt. Streets, City Hall, Boston, for gas lighting in streets, alleys, etc., for a period of five years, beginning Sept. 15, 1909. An installation of not less than 20 nor more than 50 lamps is desired.

NEW YORK, N. Y.—Bids are asked until 11 a. m., May 26, by Bird S. Coler, Pres. Boro. of Brooklyn, for furnishing all the labor and material required for pumping engine and power plant for operating Gowanus Flushing tunnel, Dept. of Sewers, Boro. of Brooklyn.

NEW YORK, N. Y.—Bids were received on April 16 by Allen N. Spooner, Comr. Dept. Docks and Ferries, for furnishing all labor and materials required for the furnishing and installing mechanical and electrical equipment on Piers Nos. 53, 54, 57, 58, 59, 60, 61 and 62, North River, between Bloomfield and West 22d Sts., on Chelsea Section in the Boro. of Manhattan. The contract has been let to the NORTH EASTERN CONSTRUCTION CO., 225 Fifth Ave., at $745,000.

BALDWINSVILLE, N. Y.—The Board of Village Trustees is reported to be considering the question of establishing a municipal electric light plant. Joseph Hines is Pres.

CHESTER, PA.—The officials of the Suburban Gas Co., of Philadelphia, have given out a statement to the effect that the company would spend $100,000 in increasing the equipments of the plants in this city.

KECKSBURG, (Mount Pleasant postoffice), PA.—We are officially advised that J. M. Keck, of Kecksburg, will build an electric lighting plant here this summer, using water power from a dam he built last summer to operate the light plant. He will furnish electric light and power for city, private house and business building lighting, as well as for manufacturing plants here and in surrounding towns.

HENDERSONVILLE, N. C.—The Appalachian Power Co., lately incorporated with $250,000 capital stock, will construct three dams and develop 50,000 HP. for transmission by electricity. The first dam is to be completed this year. George E. Ladshaw and associates of Spartansburg, S. C., incorporated the company.

SALUDA, S. C.—Ladshaw, White & Cameron, of Spartanburg, will erect a power plant on Green River, three miles from Saluda, which will furnish 50,000 HP. Three large dams will be constructed, the first one being completed before the end of the year. The new plant will be within 28 to 30 miles of a number of mill towns, and the company will undoubtedly close contracts for furnishing plants with its power.

LOUISVILLE, KY.—Arrangements are being made by B. F. Avery & Co., 150 Main St., Louisville, for construction of a new plant. A power plant will be installed, the equipment of which will include boilers and engines to supply 700-HP. automatic sprinkler system, electrical and other equipment. Plans and specifications are being prepared by George M. Brill, Marquette Bldg., Chicago, Ill.

INDIANAPOLIS, IND.—The Merchants' Heat & Light Co. has ordered plans for erection and equipment of a heat and light plant on West Washington St. and the Canal. Estimated cost, $300,000.

CRAWFORDSVILLE, IND.—The Central Station Engineering Co., of Chicago, has been granted a franchise to erect and equip a large hot water heating plant in this city. Estimated cost, $125,000.

MANISTEE, MICH.—The Manistee Electric Co. has filed a petition with the County Clk. asking for permission to dam the Manistee River and one of its tributaries. This company is the one that was organized to develop the High Bridge power, which has been held by E. N. Salling for several years. The petition names seven sites for dams, five above High Bridge and two on South Branch. The highest proposed dam is in Stronach Township on South Branch and will raise water to the height of 45 ft. The company will probably ask to be allowed to construct dams at all these places and use them one at a time as the current increases. They propose to build a log chute 6 ft. wide and 3 ft. deep at each dam and a regulation fish ladder and a skidway for passing small boats over. The dams will be made of stone or concrete and steel or partly of both and connected with the bank by earthwork embankments.

LANSING, MICH.—The Michigan Power Co., of Lansing, has authorized, through its Board of Directors, the expenditure within a short time, of $100,000 to $150,000 for increasing the capacity of the local power plant and making extensions to Charlotte and Bellevue. A 2,500-HP. generator, a foundation for which was arranged at the time the new building of the concern was erected here, will be installed at once with a battery of Wicks boilers with automatic stokers, making 800 additional steam HP. This enlargement of the plant will add 3,500 to 4,000 HP. to the 2,000 HP. capacity of the plant furnished by the waters of Grand River. The plant will then have a total capacity of 5,500 to 6,000 HP. In connection with the enlargement of the capacity of the Lansing plant, the company will begin simultaneously work on the high tension extension to Charlotte, where the company has obtained a franchise for lighting and furnishing power. Later a company controlled by W. H. Zimmerman, Supt. and Mgr., Lansing, will build a high tension line to Bellevue, where a franchise to furnish light and power has also been secured. The Charlotte high tension will carry 20,000 volts, and the same voltage may be carried on the Bellevue extension.

ST. JOHN, KAN.—Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., advise us that plans and specifications are in progress for a lighting, water-works and sewerage system. Total estimated cost, $37,500. No date has been set for taking bids.

HYDRO, OKLA.—We are officially advised that Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., have prepared plans for a lighting and water supply plant, to cost $25,000. The lighting system will light 20 arc lamps of 2,000 c.p., and 1,500 incandescent lamps.

TACOMA, WASH.—Frank L. Davis, City Engr., advises us that the city will build a 20,000-HP. power plant on Nesqually Canon, to cost $2,000,000. Surveys are being made preparatory to condemnation proceedings. Bonds have been voted, but it probably will be a year before contracts will be let. The static head at power house is 430 ft. There will be 35 miles of transmission line. F. R. Kelsey, Tacoma, is Engr.-in-Charge.

CORNING, CAL.—The Northern Electric Power Co., E. V. D. Johnson, Redding, Cal., is Mgr., is making arrangements to increase its supply of electrical energy in Corning and surrounding country from 2,000 to 6,000 HP. The increase is made to meet the demand for electricity for pumping purposes throughout the Maywood Colony. The company is rebuilding its old lines and erecting new transmission lines throughout the town.

*TORONTO, ONT.—The City of Toronto will call for bids soon for the laying of underground conduit. The work will be done under charge of the Electrical Department.

NORTH BATTLEFORD, SASK.—See item under Sewerage.

PRINCE ALBERT, SASK.—The city has decided to develop water power at Coal Falls, 26 miles south of here. It is estimated that 10,000 HP. can be developed. F. W. Halliday is interested.

VICTORIA, B. C.—It is expected the city will spend a large sum this year in enlarging its electric light and power plant. M. Hutchison, Victoria, is Supt.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

LACONIA, N. H.—Bids will be received until May 13 by the Board of Public Works, J. Henry Story, Chn., for constructing a 2-span highway arch reinforced-concrete bridge, each span 65 ft. Sanford E. Thompson is Consulting Engr., Newton Highlands, Mass. Charles A. French is City Engr.

*NEWBURYPORT, MASS.—Bids for rebuilding the old Chain bridge over the southerly arm of the Merrimac River, between Newburyport and Amesbury, Essex County, will be received by the County Commissioners, Court-House, Salem, Mass., until 10 a. m., May 24. The work will consist of removing all necessary portions of the old structure and building complete new anchorages, cables, steel stiffening trusses, towers, steel floor beams, and wooden floor, with a short solid fill approach between reinforced-concrete walls. The length of floor of suspended span is about 226 ft. This is a re-advertisement of the original plans, but with specifications slightly altered. Revised specifications are on file at the office of Engineering News, New York. James P. Hale is Clk. Comrs. The bids received for this work on April 27 are given in the following item.

*NEWBURYPORT, MASS.—We are officially advised that bids were received on April 27 by the County Commissioners of Essex County, Salem, Mass., for rebuilding the old "Chain Bridge" over the southerly arm of the Merrimac River, between Newburyport and Amesbury. Using steel truss and replacing present wooden casing around same, (b) using reinforced-concrete truss: Charles F. Hall, 17 Milk St., Boston, Mass., (a) $43,915, (b) $47,090; Spence & Trieste, 143 Liberty St., New York, (a) $54,300, (b) $58,300; H. P. Converse & Co., 88 Broad St., Boston, (a) $82,700, (b) $88,100. James P. Hale is Clk.

SOMERVILLE, MASS.—The House has passed the bill authorizing Somerville to construct a bridge over the railroad tracks at Lowell St. Estimated cost, $[illegible]120.

LYME, CONN.—The Committee on Roads, Bridges and Rivers has reported favorably in the State Senate the bill providing for the appointment of a commission of three to construct a toll bridge at Lyme. Estimated cost, not over $500,000.

HARTFORD, CONN.—Bids are asked by the Armory and Arsenal Commission, Henry Roberts, Chn., until noon, May 10, for the construction of a bridge and retaining walls, together with grading, drives and walks, after plans of Benjamin W. Morris, Arch., 345 Fifth Ave., New York. Plans and specifications may be seen at the office of the Adjutant General, State Capitol.

NEW HAVEN, CONN.—The New York, New Haven & Hartford R. R. Co., Edward Gagel, Ch. Engr., it is stated, is having plans prepared for a 60-ft. span bridge over the Darby Road and Campbell Ave., New Haven. Contracts will probably soon be let.

MATTITUCK (L. I.), N. Y.—The town awarded contract on May 1 to the CANTON BRIDGE CO., Canton, Ohio, for the construction of the new bridge at the Old Mill, at $10,950.

MORRISTOWN, N. J.—Bids are asked by the Sewer Commissioners until May 17 for a concrete bridge over the Whippany River to carry the main sewer pipe.

CONEMAUGH, PA.—The Pennsylvania R. R. Co., Alexander C. Shand, Ch. Engr., Philadelphia, is reported to be receiving bids for widening the stone arch bridge over the Conemaugh River near Conemaugh. The improvement requires the excavation of 40,000 cu. yds. of earth, 6,500 cu. yds. of stone masonry and 1¼ miles of track to be laid.

LEWISTOWN, PA.—Bids will be received by the Commissioners of Mifflin County, Lewistown, until 11 a. m., May 8, for the construction of a highway bridge over Kishacoquillas Creek, near Grinding shop in Derry Township, and on the public road leading from a point on the Lewistown and Reedsville Turnpike across said Kishacoquillas Creek to Lower Manns station on the Mifflin and Centre County branch of the Pennsylvania R. R. Bids will be as follows: For a 3-span concrete arch; for a steel bridge with concrete floor; for a steel bridge with plank floor.. W. H. Myers is Clk.

HAVRE DE GRACE, MD.—The Pennsylvania R. R. Co., Alexander C. Shand, Ch. Engr., Philadelphia, Pa., has decided to rebuild the old bridge over the Susquehanna River, connecting Perryville and Havre de Grace. Bids are being received on the construction of a draw span. Estimated cost, $95,000.

WASHINGTON, D. C.—The G. & W. MFG. CO., 26 Cortlandt St., New York, secured the contract on April 23 for movable and stationry lock gates, curtain gates and operating mechanism to be installed in bridge at inlet to Tidal Basin, Potomac Park, Washington, at $9,000.

GAFFNEY, S. C.—Bids are asked until May 6 by C. F. Gordon, Supervisor for steel bridge over Broad River above Smith's Ford.

GADSDEN, ALA.—The Louisville & Nashville R. R. Co., W. H. Courtenay, Ch. Engr., Louisville, Ky., expects to begin work within the next 60 days on the proposed steel bridge across the Coosa River. The piers now in use will be widened and strengthened. Cost, $500,000.

KNOXVILLE, TENN.—The Viaduct Committee has engaged W. H. Burke, of Knoxville, as consulting engineer to prepare plans and supervise construction of girder bridge across Asylum Ave. Plans will provide for a "Y" to West Knoxville. Estimated cost, $52,000.

MANSFIELD, OHIO.—Bids are asked until noon, May 17, by George H. Weidner, County Audr., for labor and materials for the erection of an 84-ft. high truss bridge with 14-ft. roadway, concrete and old stone abutments, near Emanuel Church in Mifflin Township.

LOGAN, OHIO.—The contract for constructing a bridge on Logan Enterprise Road, Falls Township, bids opened on April 16, has been awarded to J. C. ENBOTEN, of Logan, at $9,065. Wilbur J. Watson is Consulting Engr., Cleveland.

MASSILLON, OHIO.—Bids will be received by the Board of County Commissioners, Canton, until May 20, for constructing a concrete bridge of two 60-ft. spans at Massillon. M. W. Oberlin is County Audr.

EVANSVILLE, IND.—The Illinois Central R. R. Co. has ordered plans prepared for the construction of a bridge across the Ohio River near this city. Estimated cost, $1,000,000.

CHICAGO, ILL.—We are officially advised that bids were received as follows on April 28 by the Sanitary District of Chicago for superstructures of highway bridges to cross the North Shore Channel of the Sanitary District of Chicago: Penn Bridge Co., Beaver Falls, Pa., $14,904; Milwaukee Bridge Co., $15,960; the Toledo-Massillon Bridge Co., Toledo, Ohio, $16,111; George W. Jackson,

Inc., Chicago, Ill., $16,351; McClintic-Marshall Construction Co., Chicago, $16,968; Fort Pitt Bridge Works, Chicago, $17,180; American Bridge Co., Chicago, $17,466; Worden-Allen Co., Chicago, $17,778; Wisconsin Bridge Co., Chicago, $18,032. I. J. Bryan is Clk.

MILWAUKEE, WIS.—Charles J. Poetsch, City Engr., has prepared preliminary plans and specifications for a 1-leaf bascule bridge across slip at Cherry St. Estimated cost, $45,000. The Board of Public Works will advertise for bids later.

MASON CITY, IOWA.—The Board of Supervisors of Cerro Gordo County have decided to construct a bridge over Willow Creek at S. Main St. Estimated cost, about $18,000.

*CEDAR RAPIDS, IOWA.—Bids were opened on April 24 by the city for constructing concrete arch bridge across Cedar River at 16th Ave. W. Contract has been awarded to the UNION ENGINEERING & CONTRACTING CO., First National Bank, Chicago, at $69,460. Other bids received were as follows: Bartlett & Kling, Cedar Rapids, $77,500; John B. Turner, Cedar Rapids, $87,170; Central States Bridge Co., Indianapolis, Ind., $88,000; Cedar Rapids Construction Co., Cedar Rapids, $74,999; Dearborn & Jackson, Cedar Rapids, $85,427; A. Blodgett Construction Co., Kansas City, Mo., $80,814. P. P. Smith, of Cedar Rapids, is Engr.

ST. PAUL, MINN.—The House has passed the bill authorizing St. Paul to issue $400,000 of bonds for the construction of a bridge over the Mississippi River.

MITCHELL, S. DAK.—Bids are asked by H. B. Anderson, County Audr., until May 20, for the construction of several bridges.

BOSTON, TEX.—The J. W. MAXCY CO., of Houston, has secured the contract for the construction of bridges and roads for Bowie County. Estimated cost, about $250,000.

DALLAS, TEX.—Dallas County has voted $175,000 of bonds for remodeling bridges across the Trinity River.

NEWKIRK, OKLA.—The County Commissioners on April 22 awarded the following contracts for the construction of bridges: Ponca bridge, to MISSOURI VALLEY BRIDGE CO., at $24,200; Newkirk bridge, ILLINOIS STEEL CO., $24,925; Rock Falls bridge, TOPEKA BRIDGE & IRON CO., $10,500.

MARIETTA, WASH.—Bids will be received by the county until 1.30 p. m., May 7, for constructing a bridge over Nooksack River at Marietta. Charles Lindbery, of Bellingham, is Engr.

SPOKANE, WASH.—The City Council, it is stated, has adopted plans for a steel viaduct with concrete abutments, to span the Great Northern, Oregon R. R. & Navigation Co.'s tracks at Walnut and Boone Sts.

BERKELEY, CAL.—THE ESTERLY CONSTRUCTION CO., of Berkeley, has secured the contract for constructing a bridge across Strawberry Creek at Telegraph Ave. at the entrance to the campus of the University of California, at $8,787. This bridge will support the Sather Gate, which is to be erected at a cost of $40,000. John Galen Howard, Architectural Bldg., Berkeley, is Arch.

EDMONTON, ALTA.—The Canadian Pacific Ry. Co. will at once commence work on its high level bridge across the Great Saskatchewan River here, connecting this city and Strathcona. Estimated cost, over $1,000,000. J. G. Sullivan is Asst. Ch. Engr., Montreal, Que.

BUILDINGS.

(* *denotes that this work is advertised in Engineering News.*)

BOSTON, MASS.—Bids are asked by the Quartermaster, U. S. Marine Corps, Washington, D. C., until 11 a. m., May 24, for the erection and completion of one administration building, Marine Barracks, Navy Yard, Boston.

*FORT ANDREWS (Boston post-office), MASS.—Bids are asked until 10 a. m., June 3, by Capt. R. H. Rolfe, Constr. Q. M., 263 Summer St., Boston, for the construction, including plumbing, heating and electric wiring of one brick guardhouse, brick quarters for four officers, brick quarters for field officer at Fort Andrews, Peddock's Island, Boston Harbor, Mass.

WILLIMANTIC, CONN.—We are officially advised that the High School Building Committee will receive preliminary sketches and plans for the proposed $60,000 high school building until May 17. The building will have accommodation for 500 pupils, will be two stories high and will be constructed of brick and stone.

WATERBURY, CONN.—Plans for an addition to the court-house have been accepted. Abner R. Hayes is Chn. of the Com. named to carry on the work.

*FORT TOTTEN, N. Y.—Bids are asked until 2 p. m., May 27, by the Constructing Q. M., U. S. A., for the construction, plumbing, heating and electric wiring with fixtures of one single coast artillery barrack and one band barrack. Plans are on file at the office of Engineering News, New York.

WATERTOWN, N. Y.—The WHITNEY-STEEN CO., 135 Broadway, New York, has secured the general contract to erect the proposed 7-story brick and limestone non-fireproof bank and office building at Watertown for the National Bank & Loan Co., George C. Sherman, Pres. Clinton & Russell, 32 Nassau St., New York, prepared the plans. Estimated cost, $50,000.

NEW YORK, N. Y.—Bids were received as follows on April 30, by Theodore A. Bingham, Police Comr., for furnishing all the labor and furnishings and erecting all the materials necessary to build and complete the new station house and prison for the First Precinct on the ground and premises in the city of New York on Old Slip: J. H. Parker Co., 158 Greenwich St., $169,785; R. E. Henningham, 1 Madison Ave., $183,949; P. J. Brennan & Son, 624 Madison Ave., $195,700; P. Gallagher, 1181 Broadway, $199,950; Calumet Const. Co., 15 East 59th S., $181,743; Joseph H. Peckworth, $176,440; Joseph De Benedetto, $211,220; J. F. Walsh & Co., 1 Madison Ave., $183,000; John Kennedy & Co., 163 Park Ave., 187,700; Luke A. Burke, 25 West 42nd St., $202,750; Lipman Contracting Co., informal; Cramp & Co., 36 East 23rd St., $190,500; Thomas McCowan, $179,333; Thomas J. Blakeley, $184,955; F. T. Nesbitt Co., 116 Nassau St., $183,100; Kelly & Kelley, 45 East 42nd St., $189,985; L. J. Rice, 103 Park Ave., $213,934; George Hildebrand, 38 Park Row, $190,522; Clark & Stowe, 41st St. and Second Ave., $174,700; Thomas B. Leahy, 1 East 42nd St., $179,973.

L. F. J. Weiher, Arch., 271 West 125th St., has plans for a 6-story high-class apartment house, 145.11 ft. × irregular, for George Doctor, 209 West 133d St., to be erected in the south side of 157th St., from St. Nicholas to Edgecombe Aves. Cost, $300,000.

Thomas E. Brigham, 530 West 179th St., will build a 5-story flat building, 45 × 90.2 ft. on the north side of 79th St., 223 ft. east of Ave. A., to cost $40,000. L. F. J. Weiher, 271 West 125th St., is Arch.

NEW YORK, N. Y.—Bids are asked by Robert W. Hebberd, Comr. of Public Charities, until 2.30, May 12, for furnishing all the labor and material required for the erection and completion of a frame building on dock at the foot of Noble St., Boro. of Brooklyn.

Bids are asked by Robert W. Hebberd until 2.30, May 11, for furnishing all the labor and material required for the erection and completion of a frame building on dock at the foot of East 91st St., Boro. of Manhattan.

Structural work is expected to begin at once for the 10-story elevator apartment house which the Rockfall Realty Co., Alex. Kahn, Pres., will erect at the northeast corner of Broadway and 111th St., on a plot measuring 75.8 × 150 ft. The owners are now taking figures on all sub-contracts. There will be 70 apartments in the building, which is to be completed by December of this year. Frank Worthington is Structural Engr.; Percival R. Moser is Heating and Electrical Engr.; Henri D. Dickinson is Sanitary Engr. George and Edward Blum are Archs., 507 Fifth Ave. About $1,100,000 is the estimated cost of the building.

The following bids were received on April 26 by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for installing heating apparatus in Public School No. 25, Boro. of Brooklyn: Frank Dobson, 319 East 53rd St., $12,262; E. Rutzler Co., 127 White St., $12,288; Dan J. Rice, 103 Park Ave., $12,640; W. J. Olvaney, 177 Christopher St., $12,983; H. L. Philips, $12,545; Blake & Williams, 211 West 20th St., $12,270; Gillis & Geoghegan, 537 West Broadway, $12,390; Raizler Heating Co., 1966 Broadway, 12,764; Jas. Curran, 512 W. 36th St., $12,800.

NEW YORK, N. Y.—We are officially advised that designs for the proposed 22d Regiment armory, to be erected at 168th St. and Fort Washington Ave., at a cost of $595,000, have been approved by the Municipal Art Commission, Robert W. De Forest, Pres. The building will be of red brick, with Indiana limestone and terra cotta trimmings. Walker & Morris are Archs., 24 East 23d St. Bids will be advertised in about one month.

J. Hauser, Arch., 360 West 125th St., has prepared plans for a 6-story apartment house for the Gingola Realty Co., 927 Home St., to be erected on Riverside Drive, at the southeast corner of 152d St. Cost $280,000.

Plans have been filed with the Buildings Superintendent by Allen & Collens, 1170 Broadway, Archs., for the Union Theological Seminary, for the 7-story fireproof apartment house to be built for the seminary professors at the southwest corner of Claremont Ave. and 122d St., at a cost of $150,000.

George F. Pelham, 503 Fifth Ave., has filed plans for a 6-story apartment house with 43 suites of apartments, to be built for the Fort Washington Syndicate at the southwest corner of Haven Ave. and 181st St., at a cost of $175,000, and for a 6-story apartment house, with 34 suites for Max Marx, at the northwest corner of Lenox Ave. and 141st St., to cost $125,000.

Our Lady of Lourdes Chapel, of which the Rev. F. T. Wincher, 120 West 24th St., is the pastor, is having plans prepared by Daus & Otto, Archs., 130 Fulton St., for a new place of worship, of fireproof, stone construction, 40 × 100 ft. in size, to be situated at Morningside Ave. and 114th St., at a cost of about $300,000. The building will have a height of nearly 150 ft.

NEW YORK, N. Y.—We are officially advised that the TURNER CONSTRUCTION CO., 11 Broadway, has been awarded the contract for all the reinforced-concrete area walls, vault walls, court walls, stairs and passageway roof, in connection with the Hotel Ritz-Carlton and Carlton House, at Madison Ave. and 43d St., New York City. M. REID, is general contractor. Warren & Wetmoore, 3 East 33d St., are Archs. Work will be started at once.

R. H. Robertson & Son, 160 Fifth Ave., Archs., have been commissioned to prepare plans for the improvement of the entire block fronting on the east side of Fourth Ave., between 19th and 18th Sts., with a 20-story loft building. The new owner of the building is to be the firm of Irons & Todd, who, according to report, will erect the new structure. At present the block front is occupied by the 8-story Florence apartment house, which covers a plot 53 × 100 ft., at the northeast corner of Fourth Ave. and 18th St., and the ruins of the old Parker Building, 131 × 150 ft., at the southeast corner of 19th St. All told the property has a frontage of about 184 ft. on Fourth Ave., 200 ft. on 18th St., and 150 ft. on 19th St. It is said that an additional 50 ft. will be procured in 19th St., making the building 184 × 100 ft.

The Convent of Jesus and Mary, to be erected at 220-222 West 15th St., covering a plot 50 × 86 ft., will be constructed by the R. L. WALSH CO., 100 William St. The building as designed will be of limestone and light colored brick, eight stories and fireproof, including a chapel. Estimated cost, $180,000. J. W. Kearney, 24 East 99th St., is Arch., and has charge of the installation of the steam and electrical work.

NEW YORK, N. Y.—Plans are being drawn for transforming the Gilsey House, at 29th St. and Broadway, into a 16-story hotel. John H. Fife is Mgr. The Gilsey House has a Broadway frontage of 64.5 ft., the northerly lines, which are irregular, being about 186 ft. The rear line is 98.9 ft., and the frontage on 29th St. 148.8 ft. The property is owned by the Gilsey Estate. This makes available an area of about 13,000 sq. ft. A 16-story hotel on this plot would cost considerably more than $1,000,000.

The Coburn Cahren Construction Co., 11 West 81st St., will build at the southwest corner of Tenth Ave. and 213th St., two 5-story flats, 45 × 90 ft., costing $95,000. Neville & Bagge, 217 West 125th St., are Archs.

Mulliken & Moeller, Archs., Park Ave. and 41st St., have plans in progress for the erection of a fireproof loft building, 46 × 98 ft., twelve stories high, for the Forty East Twenty-Second Street Co., Roswell F. Easton, 103 Park Ave., Pres., to be situated at 40-42 East 22d St. Cost, $250,000. Figures on the steel work will be received at once.

We are officially advised that the GEORGE A. FULLER CO., Fuller Bldg., has obtained the general contract to erect the 12-story business building, 75 × 88 ft., for Capt. William H. Wheeler, 66 West 51st St., at 8 to 14 West 38th St., from plans by Goldwin, Starrett & Van Vleck, Everett Bldg., Union Sq. The estimated cost is placed at about $375,000.

ROCHESTER, N. Y.—Plans have been filed with the Bureau of Buildings by the Aqueduct Building Co. for a brick fireproof structure, seven stories in height, to be built at Graves St. and Butts Pl., with rear on the river. The building will be used for a printing and publishing business and its estimated cost is $45,000.

ROCHESTER, N Y.—We are advised by FRANK SWEET, 540 Glenwood Ave., Buffalo, that he has secured the contract for the erection of 515 tons of structural steel for the Temple Theater, at Rochester, N. Y.

WEST POINT, N. Y.—In the issue of April 22 it was erroneously stated that the estimate submitted by the Whitney-Steen Co., 135 Broadway, New York, for constructing the proposed riding hall at the U. S. Military Academy, was $516,826, at 6½%. The correct bid of this company was $616,826, at 6½%.

SCHENECTADY, N. Y.—Bids were received as follows by the Board of Supervisors of Schenectady County, on April 26, for the construction of proposed court-house in Schenectady for (a) general construction, (b) heating and ventilating, (c) total contract: John T. Brady & Co., New York, (a) $319,840, (b) $44,695, (c) $364,535; Feeney & Sheehan Building Co., Albany, N. Y., (a) $350,000, .b) $45,500, (c) $395,500; John McDermott, Schenectady, N. Y., (a) $296,980, (b) $44,800, (c) $341,222; Woodburn & Leighton Co., Boston, Mass., (c) $377,777; Hanrahan Bros., Schenectady, N. Y., (a) $330,193, (b) $46,777, (c) $376,973; H. Probst, New York, (a) $326,700, (b) $43,500, (c) $370,200; John Gill & Son, New York, (a) $322,102, (b) $45,583, (c) $367,000; Morris Kantrowitz, Albany, N. Y., (a) $441,000, (b) $51,000, (c) $492,000; A. E. Stephens Co., Binghamton, N. Y., (a) $320,750, (b) $45,250, (c) $366,000; Norcross Bros. Co., Worcester, Mass., (a) $338,900, (b) $48,800, (c) $387,600; Kelly & Kelley, New York, (a) $334,495, (b) $49,113, (c) $382,878; Ambros Stannard, St. James Bldg., New York, (a) $322,000, (b) $42,000, (c) $364,000; R. E. Henningham, New York, (a) $334,744, (b) $43,383, (c) $378,127; Cramp & Co., Philadelphia, Pa., (a) $304,577, (b) $54,845, (c) $348,642; John J. Turner & Son, Amsterdam, N. Y., (a) $349,549, (b) $49,512, (c) $399,061; Andrew Kinum, (a) $344,137, (b) $46,918, (c) $381,055; W. H. Fissell & Co., New York, (a) $342,342, (b) $44,795, (c) $380,736; F. C. Nesbit & Co., New York, (a) $344,650, (b) $45,000, (c) $378,600; C. H. Peckworth, 415 Hudson St., New York, (a) $351,400, (b) $48,284, (c) $395,295; Brown & Lowe, Schenectady, N. Y., (a) $306,976, (b) $47,200, (c) $354,176; P. J. Corlin Construction Co., New York, (a) $359,600, (b) $47,800, (c) $407,400.

BUFFALO, N. Y.—The George Irish Paper Corporation has purchased a site 70 ft. on the east side of River St., 200 ft. north of Erie St., running back 185 ft. to the New York Central R. R., upon which to erect a warehouse. The building will have a floor area of 80,000 ft.

The International Ry. Co. will erect a 4-story and basement office building of stone, steel, brick and terra cotta construction, with 148 ft. frontage, at Main and Michigan St., adjoining its car house and car repair plant. Thomas Penney, Pres., 816 Ellicott Sq. Bldg.

*MADISON BARRACKS (Sackett's Harbor post-office), N. Y.—Bids are asked until 2 p. m., May 26, by the Constructing Quartermaster, for revising hot water heating system in Post Hospital at Madison Barracks, N. Y.

NEWARK, N. J.—A plot of ground with a frontage of 50 ft. on Market St., with an extension to Halsey St., in Newark, has been purchased by F. F. Proctor, of New York, who will begin the erection of a theater and roof garden at once on the site. It is said that the enterprise will cost $1,000,000.

SOUTH ORANGE, N. J.—Plans calling for a building worth $150,000 have been adopted by the management of Seton Hall College. The structure will be fireproof and constructed of brick and steel. It will be four stories in height, with a basement, and its dimensions will be 180 × 82 ft. It will be erected east of the library building and will face South Orange Ave.

HOBOKEN, N. J.—F. H. Koenigsberger, Arch., of 7 Madison Ave., New York, is preparing plans for the Terminal Building Co., of the same address, for construction of an office building on Hudson St., Hoboken, near the Lackawanna terminal. The building will be of brick and steel construction, six stories in height, and will measure 50 × 105 ft. The front of the structure will be faced with pressed brick and trimmed with limestone. The building will have nine stores on the first floor and the upper floors will contain 85 offices. The estimated cost of construction is placed at $100,000.

PITTSBURG, PA.—Contract has been let to THOMPSON-STARRETT CO., 49 Wall St., New York, to construct the Second National Bank's proposed building at Liberty Ave. and Ninth St. It is stated that the building will cost $350,000. The plans are by Alden & Harlow, Archs., Farmers' Bank Bldg., and call for a 10-story structure fronting 36⅔ ft. on Liberty Ave. and running back 110 ft. along Ninth St. to Exchange Alley. The first, second and third floors will be occupied by the bank and the other floors will contain offices.

PHILADELPHIA, PA.—J. L. CRESSE, 3339 Spring Garden St., has invited bids for sub-contracts on plans for a $200,000 flat house, to be erected at the northeast corner of 34th and Chestnut Sts. The building will be a 4-story structure, measuring 100 × 114 ft., and will be built of brick, stone and terra cotta. Milligan & Webber are Archs., 520 Walnut St.

POTTSTOWN, PA.—Hewitt, Stevens & Paist are preparing plans for a $120,000 dormitory for the Hill School at Pottstown. The building will be a 4-story brick and stone structure, measuring about 200 × 50 ft.

MORGANTOWN, W. VA.—We are officially advised that the Union Utility Co. of this city will erect an 8-story fireproof building this summer. Boughton & Lantz, Brock, Reed & Wade Bldg., Morgantown, are Engrs.

*FERNANDINA, FLA.—Bids are asked until 3 p. m., June 7, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction complete of the U. S. post-office and court-house at Fernandina.

*FORT MORGAN, ALA.—Bids were received on April 20, by Capt. H. B. Chamberlin, Q. M., U. S. A., Fort Morgan, for the construction, plumbing, heating and electric wiring at Fort Morgan, of one barrack, one Field Officers' quarters, four single sets of Company Officers' quarters, one mess hall, one lavatory, one double set Firemen's quarters, one wagon shed, alteration and addition to of porches on Buildings 3-24-34 and 35, and for moving Administration building and two sets N. C. O. quarters. We are officially advised that the following are the contracts let: General work, DOUBLUT & WILLIAMS, $100,362; plumbing and heating, CHARLES T. TAYLOR, $16,248; electric wiring, COBURN & COOK, $2,074.

MONTGOMERY, ALA.—We are officially advised that Frank Lockwood, 121 Adams St., has been selected to prepare plans and specifications for a 3-story high school to be erected here at a cost of $75,000. Plans will be ready for estimates May 20, and bids will be received on June 15.

LAKE CHARLES, LA.—Bids were received as follows on May 3, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Lake Charles, La.: Louis R. Wright, Dallas, Tex., $148,890; Gude & Co., Atlanta, Ga., $141,500; King Lumber Co., Charlottesville, Va., $134,950.

MARION, OHIO.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Marion, Ohio, to JOHN G. UNKEFER & CO., Minerva, Ohio, at $61,410. A list of bids was given on April 15.

COLUMBUS BARRACKS (Columbus post-office), OHIO.—Bids are asked by Capt. H. J. Hirsch, Constr. Q. M., until 10 a. m., May 26, for the construction of an administration building, a recruit receiving barrack, a barrack for 300 men, and a fire station, at the post, including plumbing, heating, electric wiring and electric lighting fixtures.

CLEVELAND HEIGHTS (Cleveland post-office), OHIO.—Bids are asked until noon, May 28, by William G. Phare, Clk. Bd. of Education of Cleveland Heights, at his office, American Trust Bldg., Cleveland, for building a school on Noble Road.

BRAZIL, IND.—D. H. Davis will receive bids as soon as plans can be completed for the construction of a business block on Main and Meridian Sts.

BLOOMFIELD, IND.—The Commissioners of Green County are planning to construct a jail. The old jail has been condemned.

MICHIGAN CITY, IND.—Bids were received as follows on May 1 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Michigan City, Ind.: E. Burnes Co., South Bend, Ind., $46,318; August Ohm, Terre Haute, Ind., $47,877; Henry Keelin, Michigan City, Ind., $43,636; Interstate Construction Co., Ltd., Saginaw, Mich., $42,990; Charles Hoertz & Son, Grand Rapids, Mich., $43,697; Hazelton & Walin, Chicago, $47,875; James M. Bishop, Crawfordsville, Ind. $53,349; Ranger & Hobson, Harvey, Ill., $47,119; Larsen-Danielson Construction Co., La Porte, Ind., $44,500; F. M. Roode & Co., Tipton, Ind., $45,287; General Construction Co., Milwaukee, Wis., $49,400; William F. Stillwell, Lafayette, Ind., $45,500; Averly & Wallace, Plymouth, Ind., $43,950; W. J. McAlpine, Dixon, Ill., $45,730.

INDIANAPOLIS, IND.—The Jose-Balz Co. is advertising for bids for the erection and completion of 13 dwelling houses on East 32d St.

Bids are asked by the Commissioners for S. E. Indiana Insane Asylum, Room 54, State House, until noon, May 20, for the erection of four buildings known as cottages G-H, 7-8, and 11-12, each complete with plumbing, heating and electric wiring, etc. Foltz & Parker, 1108 Indiana Pythian Bldg., are Archs.

INDIANAPOLIS, IND.—Bids are asked by the Trustees Indiana School for the Blind until May 30, for the erection and completion of a dormitory.

INDIANAPOLIS, IND.—The Indianapolis organization of Elks is planning to build a club house. Peter J. Fallon, Russell B. Harrison and C. P. Valz, Bldg. Committee. Bids will be in order about June 15.

Foltz & Parker, Archs., Union Trust Bldg., are preparing plans for the construction of a $50,000 church for the Third Christian denomination. Bids will follow completion of plans.

H. C. Vehle, Henry Brandt and Charles Reger, Bldg. Com., will receive bids for enlarging and remodeling the German Orphans' Home on East Washington St.

ST. PAUL, IND.—Caleb Wright, Trustee, will receive bids for the construction of an 8-room brick school building to be built in Clay Township as soon as plans are completed.

BRAZIL, IND.—The Trustees of the local lodge of Elks has ordered plans on which bids will be asked soon for the construction of a clubhouse and lodge hall.

ROCKVILLE, IND.—We are officially advised that Brubecker & Stone, Archs., of Indianapolis, have been employed by the Tuberculosis Commission to furnish plans and specifications for the administration building, two ward buildings, a power-house, heating, light and sewage system and laundry for the new tuberculosis hospital here, paying two per cent. of contract price on this work for the plans. The cost of the work will reach $130,000. Mr. Brubecker, with Dr. Moore, Pres. of the Commission, will proceed immediately upon the administration building plans, which they think can be gotten ready for contract advertising in about two weeks. Bids will be received about June 10.

MISHAWAKA, IND.—The City School Board has approved plans for the construction of a high school building. Bids will be asked in a few weeks. The structure will be of stone and pressed brick.

KEWANEE, ILL.—Bids were received as follows on April 28 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Kewanee, Ill.: C. L. Gray Construction Co., Victoria Bldg., St. Louis, Ill., $49,930; Interstate Construction Co., Ltd., Saginaw, Mich., $49,900; T. Jobst & Sons, Peoria, Ill., $47,965; Charles W. Gindele Co., Chicago, $53,480; W. T. Turner Co., Chicago, Ill., $55,837; General Construction Co., Milwaukee, Wis., $55,126; Hazelton & Walin, Chicago, $56,134; W. J. McAlpine, Dixon, Ill., $54,900.

CHICAGO, ILL.—Announcement has been made by the Steger & Sons Piano Mfg. Co. that a fireproof building would replace the two 4-story brick buildings occupied by the company at 233 and 235 Wabash Ave. The building will be 19 stories high, and if the plans of the contractors are carried out successfully, it will be ready for occupancy by April 1, 1910.

CHICAGO, ILL.—The Studebaker Bros.' Mfg. Co. will enlarge the local automobile department by the erection of a 7-story building of reinforced concrete at the corner of Michigan Ave. and 21st St. The site at that location is 73.5 × 172 ft.

Plans have been completed by Holabird & Roche, Archs., Monadnock Block, for seven stories which Gen. Henry Strong will add to the 12-story Republic Building at the southwest corner of State and Adams Sts. The additional stories will cost $350,000.

SUPERIOR, WIS.—The Superior Theater Co. has commissioned J. E. O. Pridmore, Arch., First National Bank Bldg., Chicago, Ill., to prepare plans for a theater building to replace the one destroyed by fire recently. Cost, $40,000 to $60,000.

MILWAUKEE, WIS.—The American Express Co. has purchased a building site, 50 × 150 ft., at Cass and Huron Sts., and proposes to erect a reinforced-concrete warehouse and branch office building. The company's architects are preparing plans. A. C. Pink, is Agent for Milwaukee district. Cost, $45,000.

STANLEY, WIS.—The School Board, F. H. Bucke, Clerk, has awarded the contract for the 3-story pressed brick and cut stone school here to the WISCONSIN CONSTRUCTION CO., Chippewa Falls, Wis. Alban & Fisher, St. Paul, Minn., are Archs.

ST. PAUL, MINN.—Bids are asked by the State Board of Control, P. M. Ringdal, Chn., until noon, May 14, for construction of the following buildings according to plans prepared by C. H. Johnston, Manhattan Bldg., city, State Arch.: A 3-story hospital for the State Hospital for the Insane at St. Peter, Minn.; isolation building at the State Hospital for Insane at Rochester, Minn.; industrial building at State School for Deaf at Faribault, Minn.; alterations to the State Hospital wing at St. Peter, Minn. Total cost, $165,000.

Michaud Bros., wholesale grocers, St. Paul, have awarded general contract for building their 5-story pressed brick and cut stone, reinforced-concrete, fireproof, wholesale building, on Fourth and Rosabel Sts., to BUTLER BROS., N. Y. Life Bldg., city. Cost, $135,000. Hermann Kretz & Co., New York Life Bldg., are Archs.

ST. PAUL, MINN.—Plans are being prepared by Bertrand & Chamberlain, Archs., Bank of Commerce Bldg., Minneapolis, for the construction of a 1-story pressed brick and cut stone agricultural implement building at the State Fair Grounds here for the Minnesota State Agricultural Society, C. N. Cosgrove, city, Secy. It will be 100 × 500 ft. Cost, $60,000.

Postle, Mahler & Denson, Archs., 706 Germania Life Bldg., city, are preparing plans for the construction of a 7-story pressed and cut stone, reinforced-concrete fireproof wholesale building for Stronge & Warner Co., 67 East Seventh St., wholesale milliners. It will be 140 × 135 ft., with four freight and passenger electric elevators. Cost, $250,000.

ST. PAUL, MINN.—We are officially advised that sketches are being prepared by E. L. Masqueray, Arch., 312 Dispatch Bldg., for a 4-story pressed brick and cut stone fireproof dormitory to be built at St. Thomas College, city. Rev. H .Moynihan is Pres. Cost, $100,000.

ST. PAUL, MINN.—C. H. Johnston, State Arch., 712 Manhattan Bldg., St. Paul, is preparing sketches for the construction of a 3-story fireproof state hospital and school for crippled children to be built here. Cost, $55,000.

WICHITA, KAN.—At a recent meeting of the Wichita Union Stock Yards Co. it was decided to begin work at once on the proposed $50,000 exchange building to be located on 21st St., facing south. The proposed building will measure 100 × 200 ft., two stories, and will be constructed of fancy brick.

GETTYSBURG, S. DAK.—The County Commissioners of Potter County are completing preparations for the erection of a $50,000 county court-house building, for which the voters have authorized the issue of bonds.

HOUSTON, TEX.—The Houston "Post" states that the Adoue-Blaine Hardware Co. has effected an agreement with the Schuhmacher Grocer Co. whereby it is to build a 50 × 135-ft. annex on the new building of the other company at the foot of San Jacinto St. The annex will comprise three stories and a basement, and will have both channel frontage and frontage on Commerce Ave., enabling the company to utilize the railroad terminal to be built in at this point. A private concrete wharf with stiff-leg derrick equipment will be provided.

SEATTLE, WASH.—James Schack, Arch., Downs Block, is preparing plans for an apartment house to be erected at the northwest corner of Ninth Ave. and University St., for H. T. Bredes, Alaska Bldg. The building will occupy a site 120 × 120 ft., and will be of pressed brick and steel construction, and will be trimmed with terra cotta. The entrance will be at the corner. The plan provides for three wings, which makes it possible for every room to have outside windows. There will be 60 two and three-room apartments in the building. The building will have three stories in height on the front, but owing to the topography of the site, additional stories will be necessary in the rear.

PORTLAND, ORE.—H. BINGHAM has secured the contract for the erection of the Central Christian Church, East Taylor and East 20th Sts., at $45,000. The foundation and basement walls of the building were completed several months ago. Tenino stone will be used in the building. It is estimated that the church will cost over $60,000 when completed.

SAN JOSE, CAL.—On April 24 the State Engineer received bids for the new buildings to house the State Normal School at San Jose. The bids were for (a) the main building, consisting of seven compartments, and (b) the power-house and plant. Four concerns bid for the completion of the main building and the power-house, respectively, as follows: Ransome Concrete Co., (a) $339,920, (b) $28,448; F. O. Engstrum & Co., (a) $312,797, (b) $29,997; Thompson-Starrett Co., (a) $354,800, (b) $27,000; Rickon, Ehrhardt Engineering Co., (a) $308,000, (b) $25,676.

BERKELEY, CAL.—The Regents of the University of California have arranged for the immediate outlay in new buildings and other improvements of approximately $1,000,000. The additions which will be made to the University will be: An agricultural hall, $200,000; chemistry building, $200,000; land in Strawberry Canyon, $200,000; equipment of library, $40,000; to complete various buildings, $100,000; to finish president's house, $25,000; changing the lighting system on the campus, the installation of a new boiler, digging tunnels to place all service pipes underground, etc.

BERKELEY, CAL.—The Berkeley Bank of Savings & Trust Co., Shattuck and Center Sts., hase secured a permit at the office of the Building Inspector for the erection of the steel and concrete annex which will be constructed on Center St. as an addition to the First National Bank building. The structure is to be constructed of steel and concrete throughout, and will be two stories in height with a basement. The permit calls for an expenditure of $48,000.

SAN FRANCISCO, CAL.—Plans are being prepared by McDonald & Applegarth, Archs., for an 8-story and basement Class A building to be erected by H. M. Heineman on the north line of Bush St., east of Sansome St., on a lot 20 × 80 ft. The building will contain stores and lofts and wil cost in the neighborhood of $40,000.

The Board of Public Works has passed a resolution that the contract for the steel work on the Hall of Justice at Washington and Kearny Sts. be awarded to DYER BROS.' GOLDEN WEST IRON WORKS, at $113,675.

SALT LAKE CITY, UTAH.—Henry Ives Cobb, Arch., 42 Broadway, New York, has plans nearly completed for the construction of a large hotel building, measuring 120 × 145 ft. in size, containing a total of eleven stories and attic, to be erected at South and Main Sts., Salt Lake City, by Samuel Newhouse, 71 Broadway, New York. The cost is placed at about $1,000,000. THOMPSON-STARRETT CO., 49 Wall St., will have the building contract.

PORTAGE LA PRAIRIE, MAN.—W. J. Gilman, Winnipeg, Man., is having plans prepared for a theater to be erected here this spring.

WINNIPEG, MAN.—W. W. Blair, Arch., Nordbern Bank Bldg., is preparing plans for six apartment blocks to be constructed immediately at a total cost of $650,000.

The Public School Board has voted to construct two brick schools immediately, each of which will cost over $80,000. R. H. Smith is Secy.

The Thistle Curling Club has decided to erect a curling rink at a cost of $60,000. It will be 132 × 165 ft. W. A. Carson is interested.

MOOSE JAW, SASK.—R. N. WILLOUGHBY, Brandon, Man., has secured the contract for the erection of a Y. M. C. A. building here. Cost, $70,000.

EDMONTON, ALTA.—The Public School Board has decided to erect a high school building at a cost of $100,000.

WATER SUPPLY—IRRIGATION.

(* *denotes that this work is advertised in Engineering News.*)

BOSTON, MASS.—Bids will be received until May 7 by the Water Department for laying 5,900 lin. ft. of 30-in. and 2,000 lin. ft. of 12-in. pipe in Sleeper St., Northern Ave., etc. William E. Hannan is Water Comr.

SPRINGFIELD, MASS.—Bids are asked until 2 p. m., June 2, by the Board of Water Commissioners of the city of Springfield, for laying 30-in. steel or c.-i. pipe under the bed of the Connecticut River under Little River Water Supply Contract No. 6.

*CONCORD, MASS.—Bids are asked by Metcalf & Eddy, Consulting Engrs., 14 Beacon St., Boston, until 10 a. m., May 20, for building an intake in Nagog Pond, and laying c.-i. pipe and appurtenances in Acton and Concord for the Concord Water and Sewer Commissioners.

NEW HAVEN, CONN.—Bids were opened on April 15 by Eli Whitney, Pres. New Haven Water Co., for constructing 8,400 ft. of 6½-ft. rock tunnel for water supply. The contract has been awarded, it is reported, to the GORE-MEENAN CO., 203 Broadway, New York, at $96,450. A. B. Hill, Room 4, 100 Crown St., New Haven, is Engr.

NEW YORK, N. Y.—Bids were received as follows on April 19 by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing, delivering and laying water mains in Anderson, Bainbridge, Creston, Eastburn, Tremont and Summit Aves., in 170th, 174th and 204th Sts., in Kingsbridge Road, Mosholu Parkway and Parkside Place, Borough of the Bronx: Louis D. Gregory, 342 East 125th St., $51,856; Goodman Contracting Co., $77,160; Wilton Construction Co., $57,532; Guiseppi Molea, $56,994; John J. Haggerty, 156 East 105th St., $56,330; Hanover Contracting Co., 215 West 125th St., $57,749; D. W. Moran, 562 Burnside Ave., $87,032; Melrose Construction Co., $58,859.

BUFFALO, N. Y.—The Council on April 21 adopted the report of the Special Water Committee providing for a system of water mains, to be completed in five years. The sum of $400,000 is now available for this work. F. G. Ward is Comr. Pub. Wks.

*ROME, N. Y.—The following bids were opened on April 21 by the Board of Water and Sewer Commissioners for laying about 28,535 ft. of 30-in., 2,025 ft. of 24-in. and 780 ft. of 20-in. c.-i. water pipe: THOMAS BOVE, Rome, $24,716 (awarded contract); Hyde & Severson, Rome, $26,000; Schneible & Edy, Rome, $26,807; C. F. McGuire & Son, Hornell, $27,993; McCay Engineering Co., Baltimore, Md., $29,470; Holler & Shepard, Rochester, $29,773; Kuhn & Applegate, Bradford, Pa., $29,891; A. V. Purnell, Pittsburg, Pa., $30,997; U. S. Construction Co., Columbus, Ohio, $31,158; Golden & Lansing, Troy, $31,073; H. B. Hooker & Son, Rochester, $32,417; New York & Port Chester Construction Co., New York, $32,915; Carey Construction Co., Rome, $35,990; Donato Cuozzo, New York, $36,524; Sherman & Beebe, Utica, $37,084; R. H. Kernan & Bro., South Orange, N. J., $38,750; Kelley & Long, Boston, Mass., $39,021; Brown & Loke, Schenectady, $39,078; Booth & Flynn, Pittsburg, Pa., $40,875; Antonio Rienzo, $42,670; J. F. Kerwin & Co., New Brunswick, N. J., $42,965; M. O'Herron & Co., Pittsburg, Pa., $46,282; Robert Carter & Co., Brooklyn, $61,000.

*GLENS FALLS, N. Y.—Bids for constructing an earth reservoir dam, about 75 ft. high, with a concrete core wall, on the Butler Brook about five miles from this city, will be received by the Board of Water Commissioners at the office of the City Clerk, until 8 p. m., May 20. A. S. Rugge is City Clk. Howard M. West is Supt. W.-Wks.

ASHFORD, N. Y.—The town has granted to George N. Cowan, and others, Delevan, N. Y., a permit to organize a water-works corporation to supply West Valley with water. G. N. Cowan is Engr. and Atty.

ELMER, N. J.—The citizens on April 15 voted to construct water-works. H. Van Meter is Boro. Clk.

*CHESTER, PA.—Bids will be received until May 24 by the New Chester Water Co., A. W. MacCallum, Secy. and Gen. Mgr., 26 South Third St., Philadelphia, for laying flanged intake pipe in the Delaware River, constructing a brick well, laying 36-in. suction pipe, constructing addition to pumping station, installing two 300-HP. water-tube boilers, one 10,000,000 to 12,000,000-gallon cross-compound high-duty pump, 40 tons of lead and 1½ tons of caulking yarn, furnishing and laying force main and connecting present pump with new force main.

*RIDGWAY, PA.—Bids will be received by S. C. Chilcote, Secy, until 6 p. m., May 12 (readvertisement) for performing all labor and furnishing all material necessary for the construction of a reinforced-concrete reservoir of 1,500,000 gallons capacity.

SCOTTDALE, PA.—Plans are being prepared by James B. Hogg, Boro. Engr., for a dam across Barren Run several miles from here, which will be 20 ft. high at the breast, and which will have a total storage capacity of 15,000,000 gallons. It will supply water for this place and for Smithton, Jacobs Creek and West Newton, and will be built by a private enterprise, of which John Anderson, of this place is the head. Bids will be asked for by the engineer as soon as the plans and specifications are completed. Work will be started by June 1.

PARKERSBURG, W. VA.—The citizens on April 22 voted in favor of issuing $270,000 of bonds for the construction of a new water-works well system.

WESTON, W. VA.—The Highland Distributing Co. has been incorporated with $25,000 capital stock by W. W. Brannon, Lloyd Beeghley, Claude Rinehart and others.

MARSHALL, N. C.—We are officially advised that the $20,000 of improvement bonds voted by the town on April 5 were sold on April 4. Plans will be once made for the completion of the present water-works plant, also a sewerage system will be installed and street improvements will be made. It is expected that the work may be started early in June and completed before fall. Dudley Chipley is Engr. Bd. Internal Improvements.

ATLANTA, GA.—We are officially advised that the Water Department has awarded contract to the BUILDERS IRON FOUNDRY, Providence, R. I., for one 30-in. Venturi meter having a capacity of 25,000,000 gallons per day for measuring the discharge from their new vertical triple expansion pumping engine which is now being installed.

JESUP, GA.—H. S. Jaudon, Consult. Engr., Savannah, Ga., is preparing plans for water-works. Estimated cost $20,000.

AUGUSTA, GA.—Bids will be received by the Water Works Committee until May 10 for 259 tons of c.-i. pipe, with necessary crosses and tees, and for 7,000 ft. of 2-in. galvanized pipe.

MARIETTA, GA.—It is proposed to expend $80,000 for the construction of water-works and $30,000 for sewers. An engineer has not yet been selected. E. P. Dobbs is Mayor.

MACON, GA.—We are officially advised that the city is contemplating the purchase of the water-works system now owned by the Macon Gas Light & Water Co. Hazlehurst & Anderson, Candler Bldg., Atlanta, Ga., Consulting Engrs., associated with Charles A. Caldwell, Civil Engr., of Macon, have been retained to make an appraisement of the existing works, and to design a complete new system. Estimated cost, $750,000.

VALDOSTA, GA.—The city on April 14 voted $30,000 of bonds for enlarging the reservoir at the water-works, enlarging mains in business center, extending mains in new territory and enlarging so as to provide for equipment for electric lighting.

JACKSONVILLE, FLA.—The City Council on April 20 voted to install a high-pressure fire system of piping, about 14,600 ft. Estimated cost, $36,000. R. N. Ellis is Supt. W.-Wks.

KNOXVILLE, TENN.—The Special Water Committee, James H. Welcker, Chn., is considering an additional bond issue of $500,000 for constructing water-works or purchasing the plant of the Knoxville Water Co.

*BOWLING GREEN, KY.—Bids will be received by the Mayor and Board of Common Council until 10 a. m., May 20, for furnishing and installing a 3,000,000 filtration plant of the mechanical pressure type. Specifications may be obtained by addressing Granberry Jackson, Consulting Engr., Mt. Pleasant, Tenn.

MUNCIE, IND.—Bids are asked by the Board of County Commissioners until May 15 for constructing a compression system of water-works at the Delaware County jail and court-house. Joseph E. Davis is County Audr.

LEWISVILLE, IND.—Bids will probably be received in May for the construction of water-works. Estimated cost, about $8,000. O. T. Richardson is City Clk.

MUNCIE, IND.—The Commissioners of Delaware County will receive bids for the installation of a water plant to supply all the county buildings.

DETROIT, MICH.—The Water Board on April 21 adopted the specifications of Smith, Hinchman & Grylls, Washington Arcade, for the proposed new pumping station, to be erected east of the present water-works park. Estimated cost, about $800,000.

CHICAGO, ILL.—Plans have been approved for rebuilding the intermediate lake crib destroyed by fire last January. It is proposed to use metal for the greater part of the structure. J. J. Hanberg is Comr. Pub. Wks.

JOHNSON CREEK, WIS.—The village has voted $14,000 of bonds for the construction of a water-works system. No engineer to supervise the construction has as yet been engaged.

TAMA, IOWA.—Bids will be received by H. F. Carmichael, City Clk., until noon, May 10, for furnishing 650 ft. more or less of 4-in. water main with one hydrant, for furnishing, laying and complete construction of 650 ft. more or less of 4-in. water main with one hydrant, said water main to be laid on Sixth St., commencing at the present terminus on Toledo St. and extending at the same depth, west on Sixth St. 650 ft. more or less. Bids for the necessary ditching and plumbing for said extension of water main on said street will also be received. Bids will be considered on the different parts of construction and material or on the complete job as stated herein.

MINNEAPOLIS, MINN.—The State Senate has passed the bill authorizing this city to issue $1,000,000 of bonds for a filtration plant. Joseph Chapman is Chn. Citizens' Water Committee.

EAST GRAND FORKS, MINN.—Loweth & Wolf, Consult. Engrs., First National Bank Bldg., St. Paul, are completing plans for an extension of the water-works system here. Bids will be opened about May 10. Estimated cost, $35,000. C. P. Zimmerman is Clk.

HALSTEAD, KAN.—The proposed water-works construction has been estimated to cost about $35,000. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs. W. H. Lentz is Mayor.

*McPHERSON, KAN.—We are officially advised that the U. S. CAST IRON PIPE &

FOUNDRY CO., Rookery Bldg., Chicago, Ill., has been awarded contract by the city for 12,400 ft. of c.-i. pipe at $29.90 for 6-in. and $30.90 for 4-in. pipe. Bids were opened on April 20 by the Board of Water and Light Commissioners.

ST. EDWARD, NEB.—Charles F. Sturtevant, of Heldredge, Neb., has been selected to prepare plans for water-works. Bonds to the amount of $20,000 have been sold.

GRAND FORKS, N. DAK.—Bids will be received until May 10 by the City Council for constructing water mains in De Mers Alley and Eighth and Cherry Sts. W. H. Alexander is City Audr.

WENTWORTH, S. DAK.—The contract for constructing water-works, bids opened on April 20, has been awarded by the city to J. J. White, of Sioux Falls, at $7,000. Charles Power is Town Clk.

CARTHAGE, MO.—The M. A. Earl & Co., of Muskogee, Okla., have been selected to prepare plans for the construction of water-works here. Estimated cost, $220,000. The bonds for this work have been sold.

CARL JUNCTION, MO.—Bonds for $10,000 have been sold for the proposed water-works. Bids will soon be received for a deep well.

TULSA, OKLA.—The citizens on April 23 voted to improve the water-works and sewer systems.

ALVA, OKLA.—The city has voted $10,000 of bonds for the construction of a reservoir and extension of water service. A. N. Devin is City Clk.

*McALESTER, OKLA.—Bids are asked by J. M. Gannaway, City Clk., until 7.30 p. m., May 24, for the construction of water extensions. J. Phelan is City Engr.

PUEBLO, COLO.—W. A. Colt and H. L. Lubers, of Las Animas, Colo., have filed plans and maps here for a large irrigation project to cost about $2,000,000. The project will reclaim 200,000 acres of arid land in southeastern Colorado. This will bring under irrigation and cultivation a large tract of land which has never been irrigated and Lake Meredith, now owned by the Twin Lakes Co., will be increased 10,000,000 cu. ft. in capacity. Work on the big project, it is stated, will start at once.

LAMAR, COLO.—The City Council has let the contract for laying water mains in district No. 4 for the new water system, now in progress of building, to DOYLE & SCHWARTZ, of Colorado Springs, at $58,000. The contract in this district requires the laying of over 16 miles of water mains and the installing of at least 60 hydrants.

OGDEN, UTAH.—The WHEELWRIGHT CONSTRUCTION CO., of Ogden, has been awarded contract by the city for the construction of a distributing reservoir at $13,772. Bids were opened on April 19. List of bidders noted last week. A. F. Parker is City Engr.

SALT LAKE CITY, UTAH.—We are officially advised that the following bids were opened by the Board of Public Works on April 23 for laying about 121 miles of water mains for the year 1909: DOYLE BROS. & SCHWARTZ, Colorado Springs, Colo., $155,191 (awarded contract); P. J. Moran $155,368; James Kennedy, $159,186; J. D. Hanley, $165,766; Davis & Heuser, $170,993; V. P. Strange, $171,367.

WINNIPEG, MAN.—See item under Streets and Roads.

NORTH BATTLEFORD, SASK.—See item under Sewerage.

GLEICHEN, ALTA.—D. F. McARTHUR, Winnipeg, Man., has received the contract from the Southern Alberta Irrigation Co. for ditching in connection with the irrigation of a large tract of land.

CALGARY, ALTA.—The CARTER-HALLS-ALDINGER CO., Winnipeg, Man., has received the contract for the erection of a dam here in connection with irrigation work. Cost, $155,000.

McLEOD, ALTA.—The city has decided to spend $100,000 this summer for the water-works and sewerage systems.

PRINCE RUPERT, B. C.—E. A. Wilmot, Dyking Engr. for the Provincial Government, Victoria, B. C., is preparing plans for a water-works system for this place.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

TAUNTON, MASS.—The Council has appropriated $20,000 for sewer construction, pipe sewers to be laid by city labor. A. K. Crowell is City Engr.

QUINCY, MASS.—The City Council has passed an ordinance providing for an appropriation of $30,000 for sewer extensions.

SPENCER, MASS.—It is proposed by the city to construct a trunk sewer of pipe in Temple St. Estimated cost, $5,000. E. E. Dickerman is Town Clk.

NORTH ADAMS, MASS.—The Council on April 15 passed an order appropriating $20,000 for the construction of lateral sewers in various streets.

MANCHESTER, CONN.—Surveys have been completed by George A. Johnson, Engr., for the extension of the sewer system of the South Manchester Sanitary and Sewer District, and work will be started at once. The improvements run through Summit, Flower, Bigelow and Russell Sts., and Wadsworth Ave. The existing 6-in. sewer in West Center St. will be replaced by 12-in. mains. The laterals will be of 6 and 8-in. pipe.

BUFFALO, N. Y.—The yearly city estimates, it is reported, are to include an appropriation of $150,000 for lowering the trunk sewer outlet under the Black Rock Ship Canal. F. G. Ward is Comr. Pub. Wks.

*AUBURN, N. Y.—Contract for the construction of sewers and appurtenances here was awarded on April 27 by the Common Council to H. B. HOOKER & SON, of Rochester, N. Y., at $75,841. W. Thomas Wooley is City Engr. List of bidders noted last week.

NEW YORK, N. Y.—Bids are asked until 11 a. m., May 11, by Louis F. Haffen, Pres. Boro. of The Bronx, for constructing sewers and appurtenances in various streets.

BROOKLYN, N. Y.—Bids are asked by Bird S. Coler, Boro. Pres., until 11 a. m., May 19, for constructing sewers and sewer basins and appurtenances in various streets.

RAHWAY, N. J.—It is proposed to lay about 5,000 ft. of sewers. Estimated cost, $7,500. The sewers will probably be all tile. Franklin Marsh is City Engr.

PRINCETON, N. J.—The Governor has signed the bill authorizing Princeton to extend its sewer system.

GUTTENBERG, N. J.—Bids are asked by the Town Council until 8 p. m., May 10, for the construction of a sewer in Sixth St.

NEWARK, N. J.—The Board of Public Works has adopted a resolution providing for the construction of a system of storm water sewers in the east side of the city. Estimated cost, about $50,000. The flumes will run through sections of the following thoroughfares: Hamburg Pl., Ave. L., and Magazine, Margaretta, Niagara, Berlin and St. Charles Sts., and will discharge into Pierson's Creek.

ALLENTOWN, PA.—The following bids were opened on April 20 by the city for constructing 577 ft. of reinforced-concrete sewer and 120 ft. of 18-in. vitrified-pipe sewers: George W. Meinholz, Reading, $8,938; George H. Hardner, Allentown, $8,326; Weaver Contracting Co., Allentown, $7,752.

PHILADELPHIA, PA.—Bids were opened on April 27 by the Department of Public Works for the construction of main sewers. The following contracts were awarded: Dobson's run stormwater sewer extension in Ontario St., from Roberts Ave. to Henry St. and across private property to south of Juniata St., EDWIN H. VARE, $55,000; Frankford, intercepting system across private property from present culvert in Lewis St. to Torresdale Ave. and in Torresdale Ave. to south of Orthodox St., LOMBARDI & PASCUZZI, $50,000; Gunners Run, relief extension in Twelfth St., from Indiana St. to Clearfield St., DAVID McMAHON, $30,000; Magee St., from Torresdale Ave. to Jackson st., in Jackson St., from Magee St. to Unruh St., and in Unruh St., from Jackson St. to Algard St., COSTELLO & CO., $40,000; Saul St., from Pratt St. to Dyre St., in Dyre St., from Saul St. to Akron St., and in Akron St., from Dyre St. to Oxford Ave., LOMBARDI & PERMA, $15,000; Wingohocking system extension in Annsbury St., from North Pennsylvania R. R. to Lawrence St., ROBERT HIGGINS, $30,000; Wyoming Ave. and across private property, from Frankford St. to Adams Ave., LOMBARDI & PASCUZZI, $30,000. George R. Stearns is Dir. Pub. Wks.

WILMINGTON, DEL.—Sewer, street and improvement bonds to the amount of $275,000 have been sold.

ATLANTA, GA.—Rudolph Hering, 170 Broadway, New York, has been selected to prepare preliminary plans for the proposed sewerage system for Atlanta, plans to be ready about June 15.

BIRMINGHAM, ALA.—The City Council on April 22 awarded contracts as follows for sewer work, according to districts: District 1, to C. M. BURKHALTER, at $52,890; Districts 2, 4, 5, 6 and 7, to WATKINS & DONELSON, at $126,044; District 3, to McPOLAND & O'GARA, at $18,449, and District 8 to B. C. MILNER SONS CO., of Louisville, Ky., at $7,085.

FRANKLIN, KY.—The contract for constructing 5¼ miles of pipe sewers, bids opened on April 21, has been awarded by the city to NEWMAN SEWER CONSTRUCTION CO., of Evansville, Ind., at $4,791.

LEXINGTON, KY.—Thomas Ahern & Co., of Lexington, are the lowest bidders for the construction of a sewer in Grosvenor Ave.

*LOUISVILLE, KY.—Bids are asked by the Commissioners of Sewerage until noon, May 14, for building 1,800 ft. of concrete and pipe sewer on Magazine St. and Elliot Ave., Contracts Nos. 38 and 39. W. C. Nones is Chn.; J. B. F. Breed is Ch. Engr.

ASHTABULA, OHIO.—Bids will be received until May 11 by the Board of Public Service, A. J. Richardson, Clk., for sewers in portions of Lake, Parsons, Spencer, Tod and Starkweather Sts., in all 4,295 ft. of 10 to 20-in. pipe.

*OXFORD, OHIO.—The contract for constructing the proposed sewage disposal plant, bids opened on April 9, has been awarded to F. M. BENNER & CO., of Marion, Ind., at $15,171. The Riggs & Sherman Co., The Nasby, Toledo, Ohio, are Engrs. List of bidders noted on April 22.

LEBANON, OHIO.—Bids will be asked in about two months for the construction of pipe sewers. A. M. Bower, of Lebanon, is Engr.

LIMA, OHIO.—Bids are asked until noon, May 10, by the Board of Public Service for the construction of a 30-in. concrete and 15 and 12-in. vitrified pipe sewers. L. L. Crumrine is Secy. Bd.

LA CROSSE, WIS.—Contract has been awarded by the city to C. W. NOBLE, of La Crosse, at $17,200 for the construction of Section C, 2,520 ft. of 30-in., and 300 ft. of 52 × 78-in. pipe sewers. Bids were opened on April 15.

BELOIT, WIS.—Bids are asked by the Board of Public Works until May 7 for 10,000 ft. of storm water sewer from 12 to 24-in. of vitrified pipe. Robert Caldwell is City Engr.

WATERTOWN, WIS.—Bids will be received until May 11 by the Board of Public Works for constructing sanitary and storm sewers, requiring 17,304 ft. of from 8 to 20-in. vitrified pipe, 200 ft. of 10-in. c.-i. pipe, 26 manholes, seven ordinary and four automatic flushtanks. Arnold Kraeft is City Engr.

BOONE, IOWA.—Preliminary surveys and estimates have been ordered prepared for the construction of sewers in the Fifth Ward. K. C. Kastberg is City Engr.

WATERLOO, IOWA.—The proposed West Side sewer will cost about $75,000. Bids will be asked on concrete and brick, reinforced-concrete pipe concrete and vitrified pipe. C. T. Wilson is City Engr.

BATHGATE, N. DAK.—Bids will be received until May 10 by Alexander Morrison, Secy. Blind Asylum, for constructing a sewer, septic tank and pumping house at State Blind Asylum, Bathgate. Samuel F. Crabbe, of Fargo, is Engr.

HOUSTON, TEX.—The City Commissioners have adopted the plans of F. L. Dormant, of Houston, for the construction of the Austin St. storm sewer. H. B. Rice is Mayor.

HOLLY, COLO.—It is proposed to construct a sewer system here. Estimated cost, $25,000. John Shull, of Holly, is Engr.; N. F. Vidal is Town Clk.

SACRAMENTO, CAL.—The Board of City Trustees has decided to reconstruct old sewers and to construct new sewers to connect with the main trunks now in place. Estimated cost, about $23,000. George N. Randle is City Engr.

*TORONTO, ONT.—Bids are asked until noon, June 9, by Joseph Oliver, Mayor and Chn. Board of Control, for constructing Sections Nos. 4 and 5 of the high level interceptor. C. H. Rust is City Engr.

WINNIPEG, MAN.—See item under Streets and Roads.

NORTH BATTLEFORD, SASK.—Willis Chipman, C. E., 103 Bay St., Toronto, Ont., has been retained by the town to prepare plans for sewerage and water-works system and a municipal electric light plant.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

WATERBURY, CONN.—This city contemplates the construction of brick and bitulithic pavement on four streets. Estimated cost, $9,000. R. A. Cairns is City Engr.

HARTFORD, CONN.—The Board of Contract and Supply has awarded contract for resurfacing Capitol and Albany Aves. and Market St. to the SOUTHERN NEW ENGLAND PAVING CO. at $1.65 per sq. yd. for asphalt, $15.60 per cu. yd. for asphaltic concrete and $6.35 for Portland cement concrete.

BUFFALO, N. Y.—Bids will be received by the Department of Public Works until 11 a. m., May 6, for repaving Blossom alley, from Hersee Alley to Huron St.; also paving a portion of Columbus Ave. and repaving a portion of Rhode Island St. Francis G. Ward is Comr.

AMSTERDAM, N. Y.—This city contemplates paving one street with brick, about 7,000 sq. yds. P. E. Crane is City Engr.

NORTH TONAWANDA, N. Y.—Bids are asked until May 10, by the Board of Public Works, for paving Vandervoort St.

FREDONIA, N. Y.—Bids will be received by the Board of Village Trustees until 7.30 p. m., May 11, for paving Railroad Ave. with vitrified shale brick. Harry B. Espy is Village Clk.

ELMIRA, N. Y.—The city contemplates paving 20,000 sq. yds. of brick or asphalt on five streets. Thurber A. Brown is Acting City Engr.

BROOKLYN, N. Y.—Bids were received as follows on April 28 by Bird S. Coler, Boro. Pres., for (a) regulating and grading 14th Ave., from a point 170 ft. north of Bath Ave. to 86th St., together with all work incidental thereto; (b) regulating, grading, curbing and laying sidewalks on Twelfth Ave., from 63d St. to 65th St., together with all work incidental thereto: (a) Transit Development Co., 85 Clinton St., Brooklyn, $10,980; Norten-German Co., 303 Douglas St., Brooklyn, $20,130; Daniel Douglas, $23,424; James P. Graham, 2211 85th St., Brooklyn, $13,542; (b) S. Purifacato, 449 East 116th St., New York, $3,868; Mangeri Co., $5,071; N. Schneiders' Sons Co., 261 70th St., Brooklyn, $4,587; The John J. Guinan Co., Gravesend Ave., Gravesend, $4,639; Daniel Douglas, $5,507.

NEW YORK, N. Y.—Bids are asked until 11 a. m., May 11, by Louis F. Haffen, Pres. Boro. of The Bronx, for regulating, grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches and placing fences in various streets; for regulating, grading and paving with sheet asphalt on a concrete foundation a portion of Irvine St.; for paving with granite block on a sand foundation, and with asphalt and granite blocks on a concrete foundation the roadways of various streets, etc.

NEW YORK, N. Y.—Bids are asked until 11 a. m., May 17, by the Commissioners of the Common Lands Fund of the late Town of Gravesend, at the office of George B. McClellan, Mayor, for regulating and macadamizing the roadway of East 14th St., from Kings Highway to Ave. U, to a width of 16 ft.

*GLENS FALLS, N. Y.—Bids for laying approximately 10,900 sq. yds. of sheet asphalt pavement on a Portland cement concrete foundation in Warren St., from Culvert to Prospect St., and in Sanford St., from Glen to Bay Sts., will be received at the office of the City Clerk until 8 p. m., May 12. Howard M. West is City Engr.

INGRAM, PA.—We are officially advised that bids were received as follows on April 5 by the borough for grading, curbing and paving 7,000 sq. yds., Prospect Ave. The contract was awarded to the SAWDERS PAVING & CONSTRUCTION CO. at $13,814. Mack repressed block will be used on a machine slag and granulated base. D. H. Hainer is Boro. Clk.

BALTIMORE, MD.—The Board of Awards has awarded contract to F. E. SCHNEIDER & CO., 332 Law Bldg., at $6,993, for laying sheet asphalt on 24th St., between Maryland Ave. and St. Paul St. and to P. FLANIGAN & SONS, Lexington and Calvert Sts., at $13,916 for laying vitrified bricks on Bellview Ave., between Garrison Ave. and old city limits. B. T. Fendall is City Engr.

*WASHINGTON, D. C.—Bids are asked by the Commissioners of the District of Columbia until noon, May 15, for laying asphalt block pavement and paving various streets and avenues with sheet asphalt.

ROANOKE, VA.—Bids will be received by R. H. Wills, City Clk., until noon, May 17, for improving portions of two streets. W. B. Bates is City Engr.

BRAMWELL, W. VA.—Bids are asked by the city until May 17 for paving and curbing streets. J. A. Waddell is Mayor.

WILMINGTON, N. C.—Bids will be received by W. E. Springer, Mayor, until May 20, for furnishing crushed stone for street repairs and granite curbing.

*PENSACOLA, FLA.—Bids for grading, paving and curbing certain streets in and for the city will be received by the Board of Bond Trustees at the Council Chamber until June 1, to be addressed to R. M. Bushnell, Chn. The work for which proposals are invited consists of approximately 170,700 sq. yds. of clay or shale blocks, sheet asphalt, bitulithic, wood block or macadam pavement, and 115,950 lin. ft. of concrete curb. Amount of each class to be determined after proposals are received and considered. T. Chalkley Hatton is Ch. Engr.

MOBILE, ALA.—The Board of Road and Revenue Commissioners have agreed upon the construction of a road between Mobile and Citronelle, a distance of 35 miles.

PARK STATION (Knoxville post-office), TENN.—The city has awarded contracts for macadamizing between 30,000 and 40,000 cu. yds. J. B. McTYE was awarded one-half the work at $1.35 per cu. yd., and the other half was awarded to PETERS & GIBSON, at $1.40 per cu. yd., both of Knoxville. W. H. Underwood is Chn. St. Com.

LOUISVILLE, KY.—The Board of Public Works has awarded contracts for vitrified brick street paving as follows. L. R. FIGG & CO., for Wenzell and Grayson Sts; G. W. GOSNELL, for Brook St., both of Louisville.

FULTON, KY.—The city is considering issuing $40,000 of bonds for macadamizing and paving streets.

VAN WERT, OHIO.—J. C. Ballard, City Engr., has completed plans for paving N. Washington St., from the Junction to corporation limits of city. The specifications call for 1,250 ft. of 10-in., 3,600 ft. of 8-in. and 2,550 ft. of 6-in. sewer, catch basin and connections, 7,500 cu. yds. of excavation and brick or vitrified brick or block pavement and filler. Bids will be received by the Board of Public Service as soon as appropriations have been made.

WESTERVILLE, OHIO.—Bids will be received by Elsworth Horlocker, Village Clk., until noon, May 22, for grading and paving portions of East College Ave. and Broadway.

TOLEDO, OHIO.—Bids will be received by the Board of Commissioners of Lucas County, D. T. Davies, Jr., County Audr., until 10 a. m., May 12, for repairing three stone roads.

Bids will be received by the Board of Commissioners of Lucas County until 10 a. m., May 17, for repairing Jerusalem stone road No. 19.

STEUBENVILLE, OHIO.—Bids will be received by the Board of Public Service until noon, May 10, for grading, paving and curbing Lake Erie Ave., from Market to Washington Sts. H. G. Simpson is Clk.

BUCYRUS, OHIO.—Bids will be received by the Board of Commissioners of Crawford County until noon, May 11, for grading, macadamizing and piking the Brokensword road, on township line between Lykens and Holmes Townships. C. A. Guiss is County Surv.

LAKEWOOD, OHIO.—Bids will be received by B. M. Cook, Village Clk., until 11 a. m., May 10, for paving Lakewood Ave. and Davis St. William H. Evers Engineering Co., 237 The Arcade, Cleveland, Ohio, are Engrs.

BYESVILLE, OHIO.—PUTNAM & PRICE, of Marietta, Ohio, have been awarded contract at $40,000, for paving portions of seven streets here. Elmer E. Green is Village Clk.

DALTON, OHIO.—We are officially advised that F. E. Myers, 200 North Market St., Canton, Ohio, has prepared plans, estimates and specifications for 4,440 lin. ft. of vitrified block paving comprising 16,257 sq. yds. paving with 9,011 lin. ft. of curbing, for Main St., Dalton, to be constructed this summer.

NEW BERLIN, OHIO.—Plans, specifications and estimates, we are officially advised, are being prepared by F. E. Myers, 200 N. Market St., Canton, for grading Portage St., New Berlin.

*CLAIRSVILLE, OHIO.—Bids are asked by O. B. Nary, Village Clk., until noon, May 25, for grading, draining, curbing and paving about 8,600 ft. of streets.

RUSHVILLE, IND.—Bids are asked by the Commissioners of Rush County until 10 a. m., May 25, for the construction of a gravel road in Richland Township. J. M. Stone is County Audr.

MARION, IND.—Bids are asked by the Commissioners of Grant County until 2 p. m., May 15, for the construction of a gravel road in Monroe Township.

DETROIT, MICH.—The Commoun Council has awarded contracts as follows: To FERDINAND PORATH & SONS, 878 25th St., for paving Scovel Pl. with sheet asphalt, at $6,978; to JAMES W. HANLEY, Peninsular Savings Bank Bldg., for paving John R. St., with sheet asphalt, at $16,395; to T. E. CURRIE, Peninsular Savings Bank Bldg., for paving Moffat St., at $11,971, and Helen Ave., at $3,550, both with cedar blocks. J. J. Haarer is Comr. Pub. Wks.

GRAND RAPIDS, MICH.—The Board of Public Works has awarded contracts as follows: For improving Lake Ave., to KLOOTE & VANDERVEEN, at $7,523; Eastern Ave., to DIRK MOSSELL, at $7,296.72;

Giddings Ave., to KLOOTE & VANDERVEEN, at $9,973. L. W. Anderson is City Engr.

LAKEMILLS, WIS.—Bids will be received by N. H. Falk, City Clk., until 8 p. m., May 20, for laying 22,200 sq. yds. of asphalt macadam and the construction of 8,000 lin. ft. of curb and gutter. W. G. Kirchoffer is Engr., Madison, Wis.

MENASHA, WIS.—Bids are asked until 7.30 p. m., May 18, by the Committee on Streets, D. McMahon, Chn., for constructing concrete pavement on Ahnaip St.

MILWAUKEE, WIS.—Bids are asked by the Board of Public Works until May 7 for paving the roadway and sidewalks with brick on Fowler St., from West Water St. to the Milwaukee River. Charles J. Poetsch is City Engr.

CAMBRIDGE, WIS.—Bids will be received by O. J. Olson, Village Clk., until 7.30 p. m., May 11, for constructing cement curb and gutters, crossings and blocks for 1909.

BEDFORD, IOWA.—Bids will be received by Elmer T. Price, City Clk., until 11.30 a. m., May 10, for grading, curbing and paving with vitrified paving blocks portions of Jefferson, Dodge and Main Sts., Central and Court Aves.

DES MOINES, IOWA.—Bids will be received by the City Council until 10 a. m., May 10, for paving with asphalt, West Fifth St., from Ascension St. to University Ave.; for curbing West 19th St., from Grand to Woodland Ave. George F. Poorman is City Clk.

BRECKENRIDGE, MINN.—Bids will be received by William Thymian, Clk. Town Board of Meadows, until 10 a. m., May 15, for grading and ditching five miles of road.

KANSAS CITY, MO.—The city has decided to pave a number of streets. J. L. Darnell is City Engr.

ST. CHARLES, MO.—Bids will be received by Carr Edwards, City Engr., until 8 p. m., May 15, for constructing 38,768 sq. ft. of granitoid sidewalk and 10,415 lin. ft. of curb and gutter combined.

SEDALIA, MO.—Contracts for paving and curbing have been let by the city as follows: Brick paving, 8,000 yds., MIDLAND BRIDGE CO., $1.29 per yd.; concrete curb, 1,500 ft., J. BEN GORRELL, 27½ cts. per ft. C. E. Baker is City Clk.

WEBB CITY, MO.—V. E. KOCH, 508 Main St., Joplin, Mo., has been awarded contract for vitrified brick paving, cement curbs and gutters and sidewalks here. A. J. McKenzie is City Engr.

BENTON, TEX.—Polk County has authorized $25,000 of road and bridge bonds.

McALESTER, OKLA.—The NOLAN-DRAPER CONSTRUCTION CO., McAlester, has been awarded contract for grading, paving, curbing and guttering sundry streets and avenues. J. M. Gannaway is City Clk.

*McALESTER, OKLA.—Bids are asked by J. M. Gannaway, City Clk., until 7.30 p. m., May 25, for the construction of vitrified block pavement, cement curb and gutter.

RAINIER, ORE.—Bids will be received by J. B. Doan, Police Judge, until 8 p. m., May 20, for improving streets in Districts Nos. 1 and 2.

LOS ANGELES, CAL.—The Board of Commissioners of Los Angeles County have awarded contract to FRANK GILLESPIE at $22,740, for grading, macadamizing, etc., on El Monte road. C. G. Keys is County Clk.

WINNIPEG, MAN.—The City Council has voted $1,646,293 for public improvements this year as follows: Asphalt pavements, $1,277,639; macadam pavements, $45,157; block pavements, $38,279; granolithic walks, $61,484; plank walks, $32,514; sewers, $95,203; plank crossings, $651; water mains, $71,211; grading, $24,155. H. N. Ruttan is City Engr.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

THREE RIVERS, MASS.—We are officially advised that work has been started on the new weave shed for the Palmer Mills at Three Rivers. Lockwood, Greene & Co., of Boston, Mass., are Archs. The weave shed is approximately 40 × 400 ft., with saw tooth roof and the best modern mill construction throughout, and when completed will accommodate 1,200 looms, motor-driven throughout. The FLYNT BUILDING & CONSTRUCTION CO., of Palmer, Mass., have secured the contract and already have a large force of men upon the work, which is to be completed in five months.

PAWTUCKET, R. I.—It is announced that an $85,000 addition will be built to the Glenlyon bleachery at Phillipsdale, a suburb of this city. The building will be used in the treatment of cloth with silk. The Glenlyon is controlled by Frank A. Sayles of this city.

CENTRAL FALLS, R. I.—E. H. Barnes Co., 11 Broadway, New York, has purchased a tract of land on the easterly side of High St., and a short distance north of the old plant of the Electrolytic Copper Co., for a silk weaving mill. The intention is to erect a weave shed one story in height, to be constructed of brick, 140 ft. long and 120 ft. wide, with sawtooth roof. A power-house will be built in connection with the plant, the dimensions of which will be 20 × 25 ft., and one story in height.

THOMPSONVILLE, CONN.—The Standard Metal Works will erect a building of concrete, 80 × 120 ft. Work will be started at once.

DANBURY, CONN.—J. W. Green & Son, hat manufacturers, have awarded the contract for the construction of a 3-story brick building, 35 × 140 ft., to the TORRINGTON BUILDING CO., Torrington, Conn.

NEW BRITAIN, CONN.—The Traut & Hine Co. have awarded the contract for the construction of a 1-story factory building to the B. H. HIBBARD CO., of New Britain, Conn. Noted April 22.

ELMIRA, N. Y.—We are officially advised that the TURNER CONSTRUCTION CO., 11 Broadway, New York, have been awarded a general contract, on a percentage basis, for the erection of a cold storage warehouse, reinforced concrete throughout, 138 × 54 ft., seven stories and basement, at Elmira, for the Hygeia Refrigerating Co. Work will be undertaken at once.

BUFFALO, N. Y.—The Lackawanna Bridge Co., recently incorporated, will build an extensive plant for the manufacture of steel bridges on a 15-acre site on Abbey St. and the South Buffalo Ry. Ralph A. Kellogg, Secy., 536 Ellicott Sq.

PALMYRA, N. Y.—The Hercules Co. will erect a 1-story concrete factory, 40 × 200 ft., on Vienna St., for the manufacture of Portland cement blocks. Main works and office, Lyell Ave., Rochester, N. Y.

LEROY, N. Y.—The Genesee Pure Food Co. will build a 1-story factory building, 95 × 118 ft., of brick, steel and concrete construction, and an office building, 122 × 35 ft., of dark and ornamental brick with medina and sandstone trimmings, steel and concrete. Otto Block, is Arch., Rochester, N. Y.

LOCKPORT, N. Y.—The HOLLY MFG. Co., Buffalo, will erect for the Susquehanna Smelting Co., a 1-story stone factory building, 66 × 100 ft., at Lock and Caledonia Sts., to take place of building recently damaged by fire. W. E. Huston, Lincoln Bldg., is Arch.

The Covert Motor Vehicle Co. has had plans prepared for a 3-story brick and steel factory building, 50 × 150 ft., to be erected on Richmond Ave. B. V. Covert is Pres., 57 Richmond Ave.

SYRACUSE, N. Y.—A factory, 62 × 252 ft., 22 ft. in height, concrete construction, is to be erected on Canal St. by the Onondaga Lithelite Co. Henry H. Warner is Pres. Cost, $15,000.

ROCHESTER, N. Y.—The Eastman Kodak Co. will add to its manufacturing plant a brick steel and reinforced-concrete factory building, 322 × 355 ft., one and two stories and basement, on Charlotte Boulevard. The owner has prepared plans and will receive bids. Figures will be taken for reinforced-concrete construction. George Eastman is Pres.

BUFFALO, N. Y.—The Hydraulic Milling Co., corner of Seneca and Hydraulic Sts., will build an elevator and feed mill, 97 × 145 ft., of mill construction, at Fillmore Ave., Eagle and James Sts. Joseph A. Brown, 432 Fox St., is Arch.

PASSAIC, N. J.—The Robertsford Worsted Mills are to be rebuilt and enlarged by the addition of a brick ell, three stories high and having a floor space of 25,000 sq. ft.

ALLENTOWN, PA.—We are officially advised that R. J. CHAMBERLAIN, of Allentown, has been awarded contract for constructing a 2-story brick plant, 40 × 60 ft., for the American Union Cordials & Importing Co. Cost of building and equipment, $10,000.

BALTIMORE, MD.—The Davidson Chemical Co., Fidelity Bldg., a concern which manufactures sulphuric acid, will build a plant at Curtis Bay on the land next to the Baltimore Yacht Club. A $300,000 issue of first mortgage 6% bonds has been authorized by the stockholders. The company at present operates two plants—one at Hawkins Point and another at Canton. The plan is to abandon both and have the entire work concentrated at the new plant. The new plant is to be erected on a tract of land consisting of 135 acres, which extends from the edge of the yacht club holdings to the Arundel Cove Bridge. The property has a mile of water front and a depth of 25 to 30 ft. of water within a few feet of the shore.

TARBORO, N. C.—The Wilson & Dawson Hosiery Co., Tarboro, N. C., contemplates installing 25 additional knitting machines and erecting a dye house.

MARION, N. C.—The Marion Mfg. Co., of Marion, N. C., is reported to be planning the construction of a mill, to be equipped with 12,500 ring spindles, 300 looms, etc., for manufacturing brown sheetings. This company is capitalized at $250,000 and was incorporated recently. D. D. Little, of Spartanburg, S. C., is Pres. and Treas.

GREENVILLE, S. C.—The Woodside Cotton Mills, of Greenville, will hold a meeting of stockholders on May 11 to vote upon the recent resolution of the directors, recommending that the company's capital stock be increased from $600,000 to $800,000. This action is in connection with the company's plan to build a 25,000-spindle addition.

ELORA, TENN.—The Greenwood Mfg. Co., composed principally of capitalists of Huntsville, Ala., has been chartered under the laws of Arizona, with an authorized capital of $500,000 for operating cotton, woollen and knitting mills. The incorporators are: Frank J. Thompson, Tracy W. Pratt, W. R. Hutton and C. C. Green and the officers C. C. Green, Pres.; Tracy W. Pratt, Vice-Pres.; W. R. Hutton, Treas.; Ben P. Hunt, Secy.; C. C. Green, T. W. Pratt, W. R. Hutton, J. J. Bradley and Mrs. Annie D. Thompson are directors. A tract of land at Elora, Tenn., has been secured, with a building site on the Nashville, Chattanooga & St. Louis Ry., water privileges and other valuable concessions. The company will build a cotton mill with at least 10,000 spindles. It is the purpose at a later date to manufacture woollen blankets.

FRANKLIN, OHIO.—The Franklin Wheel Co. will erect a wheel factory here. The company has acquired a strip of land west of the river upon which a plant will be located. The company will manufacture automobile wheels as well as wagon running gear.

NEW LEXINGTON, OHIO.—The Ludowici-Celadon Co., operating a plant west of town for manufacturing roofing tile, has decided to build another plant here to make special patterns of tile. The factory will cost $100,000 and will be erected within 30 days.

FORT WAYNE, IND.—Thieme Bros. Co. are asking for bids for the erection of a large knitting plant in this city.

MILWAUKEE, WIS.—August Beck & Son Co. has awarded contracts on a $5,000 dry kiln as follows: Masonry, PAUL RIESEN & SON; carpentering, FRANK LUENZMANN CONSTRUCTION CO.; iron, AMERICAN BRIDGE & IRON CO. C. F. Ringer is Arch., Milwaukee.

ST. PAUL, MINN.—J. T. McMillan & Co., pork packers, St. Clair St., have awarded the contract for the construction of their warehouse and cold storage plant, according to plans of Madison Cooper & Co., Watertown, N. Y., to GEORGE J. GRANT CONSTRUCTION CO., city. Cost, $50,000.

ST. LOUIS, MO.—Plans and specifications for the proposed building of the Wertheimer-Swarts Shoe Co., to be erected at the northeast corner of 18th and Locust Sts., have been prepared by H. F. Roach, Arch., Syndicate Trust Bldg. As soon as the building on the site is razed contracts will be let. The structure will be of brick and reinforced concrete, six stories, 75 × 190 ft. The shoe company has taken a lease for 20 years and will occupy it as soon as completed. The present office of the shoe company is at Tenth St. and Washington Ave.

FORT WORTH, TEX.—We are officially advised that the Texas Pacific Ry. Co., B. S. Wathen, Ch. Engr., Dallas, has awarded contract to J. W. THOMPSON, of Fort Worth, for rebuilding roundhouse, machine shops, coal chutes, water tanks and coal bins recently burned. The round house will have 36 stalls. The machine shops will be 175 × 75 ft.; boiler house, 30 × 60 ft. There will be 20 chutes. Buildings will cost $105,000. The roundhouse and machine shops will be fireproof.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—Items regarding irrigation, canal projects, etc., will be found under Water Supply—Irrigation.

DITCH.—Fort Wayne, Ind.—Bids are asked by David Spindler, Supt. of Drains, until May 11, for the construction of one ditch in each of Perry, Monroe and St. Joe Townships.

*LIGHT-HOUSE.—Cleveland, Ohio.—Bids are asked until 11 a. m., May 28, by the Light House Engineer, Buffalo, N. Y., for a light-house and an iron beacon at the entrance to Cleveland Harbor.

DITCH.—Shelbyville, Ind.—Bids are asked by Joseph Beyer, Supt. of Drains, until noon, May 15, for the construction of a large trunk ditch and lateral tile drains in Liberty Township, Shelby County.

WIRE FENCE.—Fort Revere (Boston post-office), Mass.—Contract has been awarded by Capt. R. H. Rolfe, Constructing Q. M., U. S. A., Boston, to HAPGOOD, FROST & CO., for a wire fence at Fort Revere.

*TOWBOAT.—New Orleans, La.—Bids are asked until 11 a. m., June 1, by Capt. H. Burgess, Corps Engrs., U. S. A., 3338 St. Charles Ave., New Orleans, for constructing and delivering a steel hull, sternwheel towboat.

RIPRAP JETTIES.—Washington, D. C.—Bids are asked until noon, May 17, by Maj. Jay J. Morrow, Corps Engrs., U. S. A., Washington, for constructing riprap jetties in Normini and Urbana Creeks and Rappahannock River, Va.

*SHELVING.—Knoxville, Tenn.—Bids are asked by James Knox Taylor, Supervising Arch., Treasury Department, Washington, D. C., until 3 p. m., May 13, for metal vault shelving for the extension to the U. S. post-office and court-house here.

CRIBWORK, ETC.—New York, N. Y.—Bids are asked until 3 p. m., May 13, by the Park Board for rebuilding cribwork and filling in bank on the easterly side of the Harlem River, in Macombs Dam Park, in the Borough of the Bronx, City of New York.

REPAIRING STEAMBOAT.—New York, N. Y.—Bids are asked by the Department of Public Charities until noon, May 17, for furnishing all the labor and material required for making general repairs to the steamboat "The Lowell." Robert W. Hebbard is Comr.

*DREDGING.—Baltimore, Md.—Bids are asked by Maj. W. E. Craighill, Corps Engrs., U. S. A., Baltimore, until 1 p. m., June 7, for dredging in Claiborne Harbor, Elk, Chester, Warwick, La Trappe, Wicomico and Pocomoke Rivers, Md., and Broad Creek River, Del.

*DREDGING.—Kenton, Ohio.—Contract for the dredging of the Lower Scioto River Improvement No. 123 will be awarded at public outcry at the County Surveyor's office at Kenton, Ohio, on May 24, at 10 a. m. Estimated cost, about $6,000. For information address James C. Poling, County Engr.

*RUBBLE STONE, ETC.—New York.—Bids for furnishing rubble stone and quarry spalls, and for paving stone, for constructing and repairing dikes in Hudson River, N. Y., will be received by Col. W. M. Black, Corps Engrs., U. S. A., Army Bldg., New York, until noon, May 27, and then publicly opened. Information on application.

COAL-CONVEYER SYSTEM.—Key West, Fla.—Bids are asked by the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 a. m., June 5, for a coal-conveyer system of gravity bucket type at the U. S. Naval Station, Key West. R. C. Hollyday is Ch. of Bureau. Specifications are on file at the office of Engineering News, New York.

DREDGING.—Albany, N. Y.—Frank M. Williams, State Engr., has presented to the Canal Board plans and specifications for dredging a channel 200 ft. wide and 12 ft. deep in the Mohawk River from Rexford Flats to Little Falls at an estimated cost of over $4,000,000. Efforts to get satisfactory bids on this work failed, so that the work has been divided into four contracts.

QUAY WALL.—Key West, Fla.—Bids were received as follows on May 1, at the office of the Bureau of Yards and Docks, Navy Department, Washington, D. C., for the construction of a quay wall at the Naval Station, Key West. The appropriation is $91,500: Hennebeque Construction Co., 1170 Broadway, New York, $144 per running ft.; Penn Bridge Co., Bond Bldg., Washington, $339 per ft.

*EMBANKMENT.—Greenville, Miss.—Bids will be received at the office of the Board of Mississippi Levee Commissioners, Greenville, until noon, May 17, for the construction of about 850,000 cu. yds. of embankment in the Mississippi Levee District. Maps, profiles and specifications may be seen and other information the bidders may desire can be obtained at the office of C. H. West, Ch. Engr.

JETTY WORK.—San Francisco, Cal.—Bids were received as follows on April 22 by Maj. George McK. Williamson, Constructing Q. M., U. S. A., Fort Mason, San Francisco, Cal., for constructing four stone jetties at the Presidio of San Francisco: C. Coghill, 1309 Octavia St., San Francisco, $9,500, commencing in five days and completing in four months; Healy-Tibbetts Construction Co., 268 Market St., San Francisco, $8,886, 15 days, 90 days; American Construction Co., 359 Monadnock Bldg., San Francisco, $9,600.

MOVABLE DAM.—Sault Ste. Marie, Mich.—Bids were received on April 20 as follows by Lieut.-Col. C. McD. Townsend, Corps Engrs., U. S. A., Detroit, Mich., for the construction of the superstructure of a movable dam for St. Marys Falls Canal, Sault St. Marie.: Lawrence D. Weaving, Cleveland, Ohio, $119,318; Penn. Bridge Co., Beaver Falls, Pa., $122,733; Milwaukee Bridge Co., Milwaukee, Wis., $134,007; Strobel Steel Construction Co., Chicago, Ill., $147,780; Midland Bridge Co., Kansas City, Mo., $170,461; Chicago Bridge & Iron Works, Chicago, $171,635.

*CAUSEWAY.—Galveston, Tex.—Bids will be received at the office of the Auditor of the County of Galveston, until noon, June 28, for building a causeway across Galveston Bay, between Galveston Island and Virginia Point. The entire causeway will be 10,[illegible] ft. long; the arch bridge will be 2,472 ft. long; the lift bridge will have a clear span of 100 ft., and the roadway will be about 8,170 ft. long. Contractors bidding on the entire causeway must divide their bids into three parts, for the arch bridge, the lift bridge and the roadway. John M. Murch is County Audr. (See advertisement.)

SURFACING.—Boston, Mass.—We are officially advised that bids were received as follows by the Charles River Basin Commission for surfacing Section 1 of the Boston embankment, Contract No. 124: T. H. GILL CO., Somerville, Mass., $63,945 (awarded contract); Frank H. Corvin Co., Boston, $64,915; Fred E. Ellis, Melrose, Mass., $70,917; Coleman Bros., Boston, $71,485; Rowe Contracting Co., Brighton, Mass., $74,904; Bruno & Petitti, Boston, $82,005; James T. Barrett, Cambridge, Mass., $92,762; John J. Falvey, East Somerville, Mass., $95,325; Kelly & Long, Dorchester, Mass., $98,800. Walton H. Sears is Division Engr.

BARGE CANAL.—Albany, N. Y.—The State Canal Board has approved three additional Barge Canal contracts as follows: Contract No. 23. Which is for the construction of the canal (land line) from Kings Bend to Genesee River, Monroe County, including construction of two locks, guard lock, culverts and other incidental work, at an estimated cost of about $2,000,000. Length of contract about five miles. Contract 30. Which is for construction of the Barge Canal from Little Falls to Sterling Creek, a distance of over 14 miles (river and land line), including the construction of lock at Jacksonburg, guard locks and dams. Estimated cost, about $2,500,000. Contract No. 42. Which is for constructing the Erie Canal, from the Herkimer-Oneida County line to the bend just east of Oriskney road, a distance of 9 miles; the work including the construction of a lock, two bridges at Utica and a bridge at Whitesboro, together with dive culverts and other structures. Estimated cost, over $1,000,000. It is expected that bids will be asked on the work by F. C. Stevens, Supt. of Public Works, within about two weeks. Frank M. Williams is State Engr. and Surveyor.

U. S. POSSESSIONS.

*VALVES, HYDRANTS.—Manila, P. I.—Bids are asked by H. L. Fischer, Secy. Municipal Board, until noon, July 1, for furnishing gate valves, air valves and fire hydrants for the city of Manila. J. F. Case, Ch. Engr., Dept. Sewer and W.-W. Construction.

MOVABLE TOWERS.—Panama—Bids are asked until 10.30 a. m., May 12, by Capt. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Engr., Isthmian Canal Comn., Washington, D. C., for twelve movable towers, with the necessary side and back forms.

*CANAL, ETC.—Porto Rico.—Bids are asked by B. M. Hall, Ch. Engr., Porto Rico Irrigation Service, Dept. of the Interior, at Guayama, P. R., until 2 p. m., June 14, for the construction of about 24 miles of main canal with appurtenant structures, including four tunnels and five reinforced concrete siphons. The estimated cost is about $155,000. Plans, specifications and proposal blanks may be obtained from this office, or from the Commissioner of the Interior, San Juan, Porto Rico, or from the U. S. Reclamation Service, Washington, D. C.

SUPPLIES.—Panama.—Bids will be received until 10.30 a. m., May 17, by Capt. F. C. Boggs, Corps Engrs., U. S. A., Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing during the fiscal year ending June 30, 1910, drills, wire rope, brick, vitrified sewer pipe, drain tile, etc., as per Schedule 506.

*Bids are also asked until 10.30 a. m., May 24, for the following articles, per Schedule 508: for locomotive cranes, orange-peel buckets, pneumatic hoists, duplex pumps, pipe-threading machine, woodworking machines, flanging clamps, driving wheel jacks, washer cutters, belt punches, malleable-iron castings, steel forgings, chain, steam and vacuum gages, park benches, lumber, etc.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 153.

WATER-WORKS.

Concord, Mass., April 29, 1909.

Sealed proposals, endorsed "Concord Water Works," for building an intake in Nagog Pond, and laying cast-iron pipe and appurtenances in Acton and Concord, Mass., for the Concord Water and Sewer Commissioners, will be received at the office of their consulting engineers, Metcalf & Eddy, 14 Beacon St., Boston, Mass., up to Thursday morning, May 20, at 10 a. m., and will be opened there in public.

The approximate amount of work to be done is estimated as follows:

PIPE LAYING:
1,700 ft. of 16-inch pipe, intake in pond.
6,200 ft. of 16-inch pipe through private right of way.
12,200 ft. of 16-inch pipe along State Highway.
200 ft. of 8-inch pipe, blow-offs, etc.
200 ft. of 6-inch pipe, blow-offs, etc.
200 ft. of 4-inch pipe, blow-offs, etc.
ROCK EXCAVATION:
1,500 cu. yds.
PORTLAND CEMENT CONCRETE:
20 cu. yds. at or along pond intake.
30 cu. yds. along pipe line.
Setting Valves and Hydrants.
Connecting Extensions with Present Pipe System.
Building Gate Chamber in the Dam.

Proposals for doing the work must be made in the form furnished for the purpose and must be accompanied by a certified check in the sum of five hundred ($500) dollars, made payable to "Water and Sewer Commissioners of Concord, Mass."

A bond in the sum of ten thousand ($10,000) dollars acceptable to the Water and Sewer Commissioners, will be required for the faithful performance of the contract.

Detailed plans of the work may be seen and form of contract and specifications may be obtained at the office of the engineers, about May 12.

The right is reserved to the Water and Sewer Commissioners to reject any or all proposals, or to accept the one deemed for the best interests of the town.

WILLIAM WHEELER,
ELMER E. SHATTUCK,
THOMAS HOLLIS,
Water and Sewer Commissioners.
METCALF & EDDY,
Consulting Engineers.

WATER-WORKS.

Chester, Pa.

Sealed proposals will be received by The New Chester Water Company, A. W. MacCallum, Secretary and Gen'l Mgr. 26 South Third St., Philadelphia, at 2 o'clock P. M. on the 24th day of May, 1909, for the following work:

1. Laying one 42" flanged intake pipe in the Delaware River, 470 feet long.
2. Constructing one 50 ft. by 30 ft. brick well.
3. Laying one 36" suction pipe, 400 ft. long.
4. Building an addition to the pumping station.
5. Installing two 300 HP. water-tube boilers.
6. Installing one 10-million to 12-million gallon cross-compound, high-duty pump.
7. Forty (40) tons of lead and 1½ tons of caulking yarn.
8. Furnishing and laying a 30" force main from the pumping station to the reservoir, 17,000 feet in length.
9. Connecting the present pumps with the new force main.

Plans, specifications and further information can be had at the office of the company in Chester, Pa., or at the general office of the company, 26 South Third St., Philadelphia.

NEW CHESTER WATER COMPANY,
A. W. MacCallum, Sec'y & Gen'l Mgr.

SEALED PROPOSALS will be received at the office of the Light-House Engineer, Buffalo, N. Y., until 11 o'clock A. M., May 28, 1909, and then opened, for constructing a light-house and an iron beacon at the entrance to Cleveland Harbor, Ohio, in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to the Light-House Engineer, Buffalo, N. Y.

GRADING, PAVING AND CURBING OF STREETS.

Pensacola, Fla.

Sealed proposals for the grading, paving and curbing certain streets in and for the City of Pensacola, Florida, will be received by the Board of Bond Trustees at the Council Chamber up to 12 o'clock, noon, of the 1st day of June A. D., 1909, to be addressed to R. M. Bushnell, Chairman, and endorsed "Proposals for Paving Streets."

The work for which proposals are invited consists of approximately 170,700 square yards of clay or shale blocks, sheet asphalt, bitulithic, wood block or macadam pavement, and 115,950 lineal feet of concrete curb. Amount of each class to be determined after proposals are received and considered.

Each proposal must be accompanied with a certified check in the sum of five thousand dollars ($5,000) drawn on some bank doing business in the City of Pensacola, and made payable to the Board of Bond Trustees of the City of Pensacola.

Specifications and blank forms of proposals can be obtained by application to the Chairman of the Board of Bond Trustees or of the Chief Engineer at Wilmington, Del., and a full set of plans can be seen at the latter's office either at Wilmington or at Pensacola.

The right is reserved to reject any or all bids, or to award any part of proposed work to any bidder.

R. M. BUSHNELL,
Chairman Board of Bond Trustees.
T. CHALKLEY HATTON,
Chief Engineer.
Wilmington, Del., and Pensacola, Fla.

WATER EXTENSION.

McAlester, Okla.

Sealed proposals will be received by the City Clerk of McAlester, Oklahoma, till 7.30 P. M., May 24, 1909, and opened by the Mayor and City Council at a meeting to be held at the City Hall at 8.00 P. M., May 24, 1909, for the construction of water extensions approximately as follows:

26,022 lin. ft. (434 tons) of 6-in. C.-I. water pipe, class "B."
2,210 lin. ft. (25 tons) of 4-in. C.-I. water pipe, class "B."
48 6-in. T's.
5 6-in. Crosses.
15 6-in. Gate Valves and C.-I. Boxes.
53 Double Nozzle Hydrants.
Also 3,250 lin. ft. 2-in. and 1½-in. gal.-iron pipe, Est. $914.00
Total Engineer's estimate.....$28,704.00

Certified check on a local bank, or its equivalent for 5% of bid, to be returned after contract is signed.

Bond, 30% of amount of contract.

Right to reject any or all bids reserved.

J. M. GANNAWAY, City Clerk.
J. PHELAN, City Engineer.

CANAL, TUNNELS AND SIPHONS.

Guayama, Porto Rico.

Sealed proposals in duplicate will be received at this office until 2 o'clock P. M., June 14, 1909, for the construction of about 24 miles of main canal with appurtenant structures, including 4 tunnels and 5 reinforced concrete siphons. The estimated cost is about $155,000.00. Plans, specifications, and proposal blanks may be obtained from this office, or from the Commissioner of the Interior, San Juan, Porto Rico, or from the U S. Reclamation Service, Washington, D. C.

A deposit of $1.00 is required for the plans, and will be refunded on their return before June 15, 1909. The right is reserved to reject any and all bids.

B. M. HALL,
Chief Engineer.
Porto Rico Irrigation Service.
Department of the Interior.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 3d, 1909.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 7th day of June, 1909, and then opened, for the construction complete of the United States Post Office and Court House at Fernandina, Florida, in accordance with drawings and specification, copies of which may be obtained from the Custodian of site at Fernandina, Fla., or at this office, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

STREET PAVING.

McAlester, Okla.

Sealed proposals will be received by the City Clerk of McAlester, Oklahoma, till 7.30 P. M., May 25, 1909, and opened by the Mayor and City Council at a meeting to be held at the City Hall at 8.00 P. M., May 24, 1909, for the construction of vitrified block pavement, cement curb and gutter, approximately as follows:

29,323 sq. yds. block pavement.
10,830 lin. ft. combined curb and gutter.
1,234 lin. ft. 12-in. curbing.
10,641 cu. yds. excavation.
Engineer's estimate $78,458.90

Improvement to be paid for in Street Improvement bonds. Contractors required to take up additional bonds, par value equal to 1% of contract, issued for contingent expenses on the work.

Certified check for $1,000 required.

Bond, 30% of amount of contract.

Right reserved to reject any or all bids.

J. M. GANNAWAY, City Clerk.
J. PHELAN, City Engineer.

STREET LIGHTING.

PRELIMINARY NOTICE.

Street Department—City of Boston.

The City of Boston will receive bids at the office of the Superintendent of Streets, 47 City Hall, Boston, Mass., for gas lighting in streets, alleys, etc., for a period of five years, beginning September 15, 1909. Proposals will be received Thursday, July 1, 1909. Previous to the receiving of proposals, it is desired that intending bidders furnish perfected apparatus for a practical demonstration under service conditions on Boston streets. The City will pay a reasonable cost of installation, not including the cost of lanterns, and will also pay the cost of maintenance at the rate now paid under the existing contract. An installation of not less than twenty (20) nor more than fifty (50) lamps is desired. No bid will be considered upon apparatus that has not been operated for purposes of observation and tests on Boston streets for at least one month.

GUY C. EMERSON,
Superintendent of Streets.
April 28, 1909.

RESERVOIR DAM.

Glens Falls, N. Y., April 30, 1909.

Sealed proposals for constructing an earth reservoir dam, about seventy-five (75) feet high, with a concrete core wall, on the Butler Brook about five miles from this city, will be received by the Board of Water Commissioners at the Office of the City Clerk, until 8 o'clock p. m., May 20, 1909, at which time they will be publicly opened and read. The contract will require a bond of $75,000.

The city reserves the right to reject and or all bids. Plans and specifications may be obtained by addressing the Superintendent.

A. S. RUGGE,
City Clerk.
HOWARD M. WEST,
Supt. of Water-works.

UNDERGROUND CONDUIT.

Toronto, Ont.

The City of Toronto will shortly call for tenders for the laying of underground conduit.

For specifications, apply to the ELECTRICAL DEPT., City Hall.

PROPOSALS FOR REVISING HOT WATER HEATING SYSTEM AT MADISON BARRACKS, N. Y.—Office of the Constructing Quartermaster, Madison Barracks, N. Y., April 27th, 1909.—Sealed proposals in triplicate will be received here until 2 o'clock P. M., May 26th, 1909, and then opened, for Revising Hot Water Heating System in Post Hospital at Madison Barracks, N. Y. Information furnished on application. Intending bidders should forward certified check for $10.00, payable to the Constructing Quartermaster, to secure plans and specifications, said check to be returned when plans, etc., are returned. The U. S. reserves the right to accept or reject any or all bids. Envelopes containing bids should be marked "Proposals for Revising Hot Water Heating System" and addressed to the CONSTRUCTING QUARTERMASTER.

UNITED STATES ENGINEER OFFICE, 3338 St. Charles Avenue, New Orleans, La., April 29, 1909.—Sealed proposals for constructing and delivering a steel hull sternwheel towboat will be received at this office until 11 o'clock A. M., June 1, 1909, and then publicly opened. Information furnished on application. H. BURGESS, Captain, Engineers.

CONNECTICUT RIVER CROSSING.

Springfield, Mass.

Sealed proposals will be received by the Board of Water Commissioners of the City of Springfield, Mass., until two o'clock, Wednesday, June 2, 1909, for the laying of two 30 inch steel or cast-iron pipes under the bed of the Connecticut River, as included under Little River Water Supply, Contract No. 6.

A certified check for $5,000 will be required with each bid and a bond of $40,000 is to be executed by the party to whom the contract is awarded.

*Information for bidders, form of proposal, specifications, plans, contract and bond is given in a booklet which may be obtained of E. E. Lochridge, Chief Engineer, Springfield, Mass., and of Hazen & Whipple, Consulting Engineers, 103 Park Ave., New York City.

The Board reserves the right to reject any or all bids or to accept any bid should they deem it for the best interests of the city so to do.

C. H. BENNETT,
S. L. HAYNES,
W. E. SANDERSON,
Board of Water Commissioners.
E. E. LOCHRIDGE,
Chief Engineer.

*Copies of this booklet will be on file at the office of Engineering News, New York.

INTERCEPTING SEWER.

Toronto, Ont.

Tenders will be received by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, up to noon on June 8th, 1909, for the construction of Sections Nos. 4 and 5, of the High Level Interceptor. The following is an approximate statement of the work to be done:

Section No. 4, total length 4,211 feet, made up as follows—
73 linear ft. circular sewer, 7' 6" dia.
1,865 linear ft. circular sewer, 7' 3" dia.
2,273 linear ft. circular sewer, 7' 0" dia.

Section No. 5, total length 6,481 feet, made up as follows—
2,493 linear ft. circular sewer, 6' 6" dia.
3,974 linear ft. circular sewer, 6' 0" dia.
14 linear ft. of bellmouth.

The work includes the building of connections with intercepting sewer, syphons, manholes, etc.

Plans may be seen and specifications and forms of tender obtained at the office of the City Engineer.

The usual conditions relating to tendering as prescribed by City By-law must be strictly complied with or the tender will not be entertained.

The lowest, or any tender not necessarily accepted.

JOSEPH OLIVER (Mayor),
Chairman, Board of Control.
City Hall, Toronto, May 3d, 1909.

PAVING.

St. Clairsville, Ohio.

The Clerk of the Village of St. Clairsville, State of Ohio, will receive bids until noon, May 25th, 1909, for the furnishing of labor and materials for the grading, draining, curbing, and paving with paving brick or block of eight different streets or portions of streets aggregaitng about 8,600 feet. Specifications and proposals will be furnished on request.

O. B. NARY, Clerk.

SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
(Incorporated.)

Sealed proposals for the construction of Magazine Street and Elliot Avenue Sewers, Contracts No. 38 and No. 39, of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, May 14th, 1909.

The work will consist mainly of building about 1,800 feet of concrete and pipe sewers, 24 in. and 18 in. in diameter and including about 200 cu. yds. of concrete.

Plans and specifications may be seen at the office of the Commissioners.

Sealed bids should be endorsed "Proposal for Magazine St. (or Elliot Ave.) Sewer" and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be ac-

companied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

W. C. NONES, Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

PROPOSALS FOR FURNISHING AN ENGINE AND DYNAMO FOR THE TUBE WELL PUMPING STATION, AND AN ELECTRIC MOTOR AND CENTRIFUGAL PUMP FOR THE FILTER BEDS OF THE YONKERS WATER-WORKS.

Office of Board of Contract and Supply:
Yonkers, N. Y., May 5, 1909.

Sealed proposals will be received until 8 o'clock p. m., Monday, May 17, 1909, at the office of the Board of Contract and Supply, for the furnishing and delivery f. o. b., Yonkers, N. Y., of one engine, to be connected direct with dynamo, of standard make and guaranteed to supply seven kilowat power, with a voltage of 115. Also a submerged centrifugal pump connected direct to a standard motor; the pump and motor to be first-class in every respect, and fully equipped with all necessary auxiliaries.

The bidder to furnish with his bid plans and specifications of the pump and motor, showing all essential parts and quality of material to be furnished.

Copies of the general plans and specifications for the above, and forms of proposals may be obtained at the office of the Board of Contract and Supply, Manor Hall, Yonkers.

Proposals to be enclosed in sealed envelopes, addressed to the Board of Contract and Supply, endorsed with the title of the work and the name and address of the bidder. Each proposal must also be accompanied in a separate envelope by a certified check, drawn to the order of Gideon H. Peck, Treasurer, for not less than five (5) per centum of the total amount of the proposal, and also by the consent of two individual sureties, freeholders, or an acceptable surety company, to execute the contract if awarded, as surety and guarantor of the performance thereof.

JAMES D. McINTYRE,
Secretary.

FILTER PLANT.

Bowling Green, Ky., May 4, 1909.

Sealed bids will be received by the Mayor and Board of Common Council of the city of Bowling Green, Ky., until Thursday, May 20, 1909, at Ten (10.00) o'clock A. M., for furnishing and installing a three-million Filtration Plant of the Mechanical Pressure type. A certified check for $500.00 will be required with each bid. The right is reserved to reject any or all bids.

Specifications may be obtained by addressing Granberry Jackson, Consulting Engineer, Mt. Pleasant, Tenn.

GEO. T. WILSON, Mayor.
W. H. PHILLIPS, City Clerk.

OFFICE OF THE COMMISSIONERS, D. C., Washington, April 28, 1909.—Sealed proposals will be received at this office until 12 o'clock noon, Saturday, May 15, 1909, for laying Asphalt-Block Pavement. Forms of proposals, specifications and necessary information may be obtained from Chief Clerk, Engineer Department, Room 127 District Building. HENRY B. F. MACFARLAND, HENRY L. WEST, WILLIAM V. JUDSON, Commissioners, D. C.

OFFICE OF THE COMMISSIONERS, D. C., Washington, April 28, 1909.—Sealed proposals will be received at this office until 12 o'clock noon, Saturday, May 15, 1909, for paving various streets and avenues with sheet asphalt. Forms of proposals, specifications and necessary information may be obtained from Chief Clerk, Engineer Department, Room 427, District Building. HENRY B. F. MACFARLAND, HENRY L. WEST, WILLIAM V. JUDSON, Commissioners, D. C.

U. S. ENGINEER OFFICE, Room 300, Custom House, Baltimore, Md., May 3, 1909.—Sealed proposals for dredging in Claiborne Harbor, Elk, Chester, Warwick, La Trappe, Wicomico and Pocomoke rivers, Md.; Nanticoke River, Del. and Md., and Broad Creek River, Del., will be received at this office until one o'clock P. M., June 7, 1909, and then publicly opened. Information furnished on application. W. E. CRAIGHILL, Maj., Engrs.

U. S. ENGINEER OFFICE, Room F-7, Army Building, New York, N. Y., April 30, 1909.—Sealed proposals for furnishing rubble stone and quarry spalls, and for paving stone, for constructing and repairing dikes in Hudson River, N. Y., will be received here until 12 M., May 27, 1909, and then publicly opened. Information on application. [illegible]

DREDGE WORK.

Kenton, Ohio.

Contract for the dredging of the Lower Scioto River Improvement No. 123 will be awarded at public outcry at the County Surveyor's office at Kenton, Ohio, on Monday, May 24, 1909, at 10 o'clock a. m. Estimated cost, about $6,000.00. For information address

JAMES C. POLING,
County Engineer.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., April 27, 1909.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 13th day of May, 1909, and then opened, for metal vault shelving for the extension to the U. S. Post Office and Court House, Knoxville, Tenn., in accordance with the drawing and specification, copies of which may be had at this office or at the office of the Superintendent of Construction at the building, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

WAR DEPARTMENT, Constructing Quartermaster's Office, U. S. Army, 263 Summer St., Boston, Mass., May 3, 1909.—Sealed proposals, in triplicate, will be received at this office until 10 o'clock A. M., June 3d, 1909, and then opened, for the construction, including plumbing, heating and electric wiring of One Brick Guardhouse, Brick Quarters for 4 officers, Brick Quarters for Field Officer at Fort Andrews, Peddock's Island, Boston Harbor, Mass. Plans can be seen and specifications, blank forms and full information may be obtained at this office. A deposit of $15.00 required for plans and specifications; deposit will be returned to bidder on return of plans and specifications here. The United States reserves the right to reject any or all proposals. Envelopes should be endorsed "Proposals for Public Buildings, Fort Andrews, Mass.," and addressed to CAPTAIN R. H. ROLFE, Constructing Quartermaster, Boston, Mass.

Situations Wanted

Mechanical and Electrical Engineers.

MECHANICAL ENGINEER—Member A. S. M. E., wishes to represent manufacturer, 10 years' experience with New York trade. Specialty, contractors' equipment. "H.," Machinery Club, New York. 18-3t

JUNIOR MECHANICAL engineer as assistant, age 26, technical graduate, practical shopman, wishes permanent responsible position. Address "H. A. 17," Engineering News, New York. 18-2t

Civil Engineers.

GRADUATE C. E. (29), experienced in designing plain and reinforced concrete arches, dams, retaining walls, culverts, making estimates, etc.; excellent stress computer and mathematician. Address "C. 15," Engineering News, New York. 18-3t

CIVIL ENGINEER (25), graduate of high grade technical school, who has had two years' construction experience and two years' business experience, desires position with responsible growing concern. Has built up a building material business from a failure to a healthy paying state. Address "W. A. 18," Engineering News, New York. 18-2t

ENGINEER (37), wants position; 6 years' experience on railway location and construction, one year on irrigation; some experience on municipal; transit on railway location of residency on construction preferred. $100 and expenses. Position lasting less than a year not considered. FLITMAN, Dos Palos, Cal. 18-5t

ASSISTANT ENGINEER, experienced levelman, transitman and draftsman, wishes city position. Address "A. A. 18," Engineering News, New York. 18-1t

CAPABLE GRADUATE ('08), civil engineer, desires work. One year's experience; $60 per month. Address "I. A. 18," Engineering News, New York. 18-1t

GRADUATE CIVIL ENGINEER, 2 years railroad work; instrumentman and computer; location no object; west preferred. Address "X. A. 16," Engineering News, New York. 18-1t

CIVIL ENGINEER (26), technical graduate, desires responsible position; two years' experience as contracting engineer and estimator for structural steel firm; capable designer; at present employed. Address "P. A. 18," Engineering News, New York. 18-2t

Bridge and Structural Engineers.

DESIGNER, technical graduate, four years' experience structural steel and bridge work, wants position in Chicago. Address "T. 8," Engineering News, 1636 Monadnock Block, Chicago. 18-1t

Surveyors.

TECHNICAL GRADUATE ('08), experienced in drafting, computing, etc., can run transit, desires position with railroad or engineer; moderate salary; references. Address "X. A. 18," Engineering News, New York. 18-1t

YOUNG MAN with 3 years' practical experience, desires position, run instruments, 2 years college; go anywhere. Address "G. A. 18," Engineering News, New York. 18-1t

Draftsmen.

DRAFTSMAN, technical graduate, desires to begin as tracer on structural work; in or near New York; can figure stresses. Address "D. A. 18," Engineering News, New York. 18-1t

STRUCTURAL DRAFTSMAN, with long experience in buildings and bridges, graduate civil engineer, wants employment. Address "H. A. 18," Engineering News, New York. 18-2t

Superintendents, Misc., etc.

TECHNICAL GRADUATE, two years' experience in drafting and structural iron shop, wants employment, field work preferred; location immaterial; references. Address "Z. A. 18," Engineering News, New York. 18-1t

MASS. INSTITUTE OF TECHNOLOGY graduate, age 27, now employed, desires position in or near New York. Five years' experience in shipbuilding and subaqueous rock work. Address "F. 12," Engineering News, New York. 18-4t

YOUNG MAN (24), three years' experience on construction work, as inspector, in tunnel work, concreting, test borings; also 5 years' experience in clerical work; I. C. S. course in surveying; would like position. Address "S. A. 18," Engineering News, New York. 18-1t

SUPERINTENDENT and contractor's engineer with wide experience in building and general engineering work here and abroad. Specialist in concrete, concrete construction; forms, treatments, design, field organization, etc. Will handle loosing proposition for contractor or bondsman. Executive ability and experience as manager and general superintendent. Address "C. A. 18," Engineering News, New York. 18-1t

TECHNICAL GRADUATE (24) desires position as field or office assistant with contractor. Timekeeper, draftsman, computer. Address "E. A. 18," Engineering News, New York. 18-1t

YOUNG I. C. S. STUDENT desires position with engineer or surveying party; nearly finished; anxious and willing to work hard. Address "F. A. 18," Engineering News, New York. 18-1t

ENGINEER and superintendent of construction; technically educated; over 25 years' actual experience as engineer and superintendent of construction of railroads, water-works, reservoirs, aqueducts, masonry and cyclopean concrete dams, canals, power plants, cofferdams, lock, foundations, piers, docks, wharves, tunnels, concrete structures, cableways, concrete plants, installing and using hoisting, drilling, dredging and pumping machinery; have handled large forces of men successfully; satisfactory references. Address "K. A. 18," Engineering News, New York. 18-1t

SALESMAN—Young technical graduate C. E. Four years' good general engineering experience, would invite correspondence with view to sales position. Address "M. A. 18," Engineering News, New York. 18-1t

FIRST-CLASS STRUCTURAL CHECKER and squadman, ten years' experience, wishes position. Address "L. A. 18," Engineering News, New York. 18-4t

SALES MANAGER

Export or Domestic

Wanted position as SALES MANAGER by experienced salesman, engineer and manager. Ten years' experience in marketing machinery at home and abroad; excellent connections in many foreign countries, including China and the Orient. Large acquaintance with Public Service Corporations in the U. S. Can perfect or organize selling force and produce results. Interview preferred. Best of references. Can sever present connections in 90 days, possibly sooner. Address "R. 18," Engineering News, New York. 18-1t

Situations Open

WANTED—Several structural draftsmen for building work. Apply HAY FOUNDRY AND IRON WORKS, Newark, N. J. 18-1t

AN OPPORTUNITY.—The proprietor of a successful construction contracting business wishes to be relieved of some of his work and responsibilities. To the party (young man preferred) who can make necessary showing, there is an opening without financial investment. No reply without a showing of ability and fitness to successfully do something that needs to be done in the carrying on of such a business. Middle West. Address "R. A. 18," Engineering News, New York. 18-1t

Miscellaneous Wants

ENGINEERING DRAWING for illustrations. CARL WINGATE, c/o Engineering News, New York. 18-3t

Draughtsman or Estimator

WANTED

who can invest $5,000 to $10,000 to joint in structural steel and ornamental iron shop. Can get the business and put up like amount, and want man who is financially interested. Address "E. 18," Engineering News, New York. 18-1t

FOR SALE

FOR SALE.

Locomotive Cranes

2—10-ton, 45 ft. or shorter booms, mounted on 4 wheels. Good as new.

Clam shell attachment if desired.

Built by Am. H. & Decick Co.

Also

2—10 Ton Industrial Cranes

On 2—4-wheel trucks. Nearly new.

FRED. A. PECKHAM,
1301-2 Great Northern Bldg.

FOR SALE.

Contractors' Equipment

1—Davenport Standard Gage, Saddle Tank, 18-Ton Locomotive.
1—Robbins Conveying Belt Complete, 20-Inch, 375 Feet Long.
1—20 HP. Horizontal Steam Engine.
2—Screening Plants, Complete.
1—Lambert Hoisting Engine, 20 HP., with Swinging Mechanism and Bull Wheel.
100,000 Feet Heavy Timbers.

Also—One Miscellaneous Lot Small Tools.

Full Information Upon Request.

THE McMYLER MANUFACTURING CO.,
Cleveland, Ohio. 18-2t

FOR SALE.

45 Ton Boom Pattern BUCYRUS STEAM SHOVEL

Three sets of engines, horizontal boiler, good order; Chicago delivery.

FRED. A. PECKHAM,
1301 Great Northern Bldg., Chicago.

FOR SALE.
New

Bucyrus 70 Ton Shovel

at a reduced price.

JAMES F. McCABE CO.,
Equitable Building, Baltimore, Md. 18-4t

FOR SALE OR RENT.

Stone Crushing Plant

in good repair; would take contract suitable for above equipment.

D. H. DONOVAN,
West O'Reilly St., Kingston, N. Y. 18-1t

FOR SALE.

THEW Steam Shovel

No. 3, brand new. Price, $6,250; cost, $6,750.

FRED. A. PECKHAM,
1301 Great Northern Bldg., Chicago.

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used one year.

FOR SALE.

Monarch Ten Ton Steam Roller

Used five months; perfect condition.
Asphalt Roller; five ton.

RUSSELL CONTRACTING CO.,
156 5th Ave., New York City. 18-1t

FOR SALE.

60-HP. vertical tubular Boiler.
Four Dobbie stiff-leg derricks, 6-ton capacity.
Heavy Chain Slings.
Double purchase Hand Winch.
Timber Wheel.
Tool Boxes, Wheel Barrows, Dollies, Gasoline Torches and Safe; very good condition; for Malt new price. Located at siding.

F. J. HASSARD,
Garwood, N. J. 18-4t

FOR SALE.

Light Granite Quarry

At Barre, Vermont, with good dumping ground. For further information, apply to

WILLIAM JONES,

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